

GENERAL NOTES FOR PUBLIC WORKS CONSTRUCTION:

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE STANDARD SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS. IF THERE IS A CONFLICT, THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL GOVERN.
2. THE CITY ONLY APPROVES THE SCOPE, NOT THE DETAIL OF ENGINEERING DESIGNS; THEREFORE, IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
3. THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF AN ASSOCIATED PERMIT HAS NOT BEEN ISSUED WITHIN THIS TIME FRAME, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR RE-APPROVAL.
4. A CITY INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF SCOTTSDALE. NOTIFY INSPECTION SERVICES 72 HOURS BEFORE BEGINNING WORK.
5. WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER, 811, TWO WORKING DAYS BEFORE EXCAVATION BEGINS.
6. PERMISSION TO WORK IN RIGHT-OF-WAY (PWR) PERMITS ARE REQUIRED FOR ALL WORKS WITHIN THE RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION IS OBTAINED.

RETENTION BASIN SUMMARY TABLE:

DRAINAGE AREA	TOTAL VOLUME RETENTION REQUIRED (CF)	BASIN I.D.	TOTAL VOLUME RETENTION PROVIDED (CF)	AS-BUILT VOLUME (CF)
A	12,802	A	13,224	
B	23,997	B	25,091	
C	41,641	C	49,690	
D	19,180	B	20,985	

FLOODPLAN MAP INFORMATION

COMMUNITY NUMBER	PANEL NUMBER AND DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	SHADED ZONE	BASE FLOOD ELEVATION (IN AO ZONE, USE DEPTH)
045012C	2235 10-16-13	L	11-04-15	X	N/A

THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ON THIS PLAN ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A 100-YEAR STORM, AND ARE IN ACCORDANCE WITH SCOTTSDALE REVISED CODE, CHAPTER 37 - FLOODPLAIN AND STORMWATER REGULATION.

NOTE

THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE ONLY AND ARE AND SHALL REMAIN THE EXCLUSIVE PROPERTY OF HESS-ROUNTREE, INC. NO REPRODUCTION OR OTHER USE SHALL BE MADE BY ANY PERSON OR FIRM OTHER THAN HESS-ROUNTREE, INC. OR CITY OF SCOTTSDALE WITHOUT EXPRESS PERMISSION OF HESS-ROUNTREE, INC. ANY UNAUTHORIZED USE SHALL VOID THE ENGINEER'S SEAL AND SIGNATURE HEREON AND NO PROFESSIONAL RESPONSIBILITY WILL REMAIN.

NO CONFLICT SIGNATURE BLOCK

Utility	Utility Company	Name of Company Representative	Telephone Number	Date Submitted	Date Signed
Water	APS	Michael Bouche	608-371-7033	05/13/20	X
Water	Salt River Project	Matt Streeper	602-236-3105	05/13/20	5/21/20
Cable TV	Century Link	R-of-W Dept	N/A	05/13/20	5/14/20
	City of Scottsdale	Doug Mann	480-312-5636	05/13/20	X
Cable TV	Cox Communications	TMC Dept.	623-328-3554	05/13/20	X
Other	Southwest Gas Cop.	Greg Cooper	602-484-5276	05/13/20	6/10/20
Other	Zayo Group	Stake Center D	801-364-1063	05/13/20	X

ENGINEER'S CERTIFICATION

I, DOUG OSBORN, BEING THE PERSON RESPONSIBLE FOR DESIGNING THE FACILITIES NECESSARY TO SERVE THIS DEVELOPMENT, HEREBY CERTIFY THAT PLANS HAVE BEEN SUBMITTED TO ALL THE UTILITY COMPANIES LISTED ABOVE FOR CONFLICT REVIEW. "NO CONFLICT" FORMS HAVE BEEN OBTAINED FROM EACH UTILITY COMPANY THAT RESPONDED AND ARE INCLUDED IN THIS SUBMITTAL. CONFLICTS IDENTIFIED BY UTILITY COMPANY RESPONSES HAVE BEEN RESOLVED.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

SHEET INDEX:

- C-1 COVER SHEET  
C-2 DETAIL SHEET  
C-3 CROSS SECTION DETAIL SHEET  
C-4 PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN  
C-5 PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN  
C-6 PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN  
C-7 PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN  
C-8 PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN  
C-9 PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN  
C-10 GRADING AND DRAINAGE PLAN  
C-11 GRADING AND DRAINAGE PLAN  
C-12 GRADING AND DRAINAGE PLAN  
C-13 GRADING AND DRAINAGE PLAN  
C-14 GRADING AND DRAINAGE PLAN  
C-15 GRADING AND DRAINAGE PLAN  
C-16 GRADING AND DRAINAGE PLAN  
C-17 STORM DRAIN PLANS  
C-18 STORM DRAIN PLANS  
C-19 STORM DRAIN PLANS  
C-20 STORM DRAIN PLANS  
C-21 STORM DRAIN PLANS  
C-22 PLAYCOURT DETAIL SHEET  
C-23 DOMESTIC WATER, PRIVATE FIRE LINE AND SANITARY SEWER LINE PLAN  
C-24 DOMESTIC WATER, PRIVATE FIRE LINE AND SANITARY SEWER LINE PLAN  
C-25 DOMESTIC WATER, PRIVATE FIRE LINE AND SANITARY SEWER LINE PLAN  
C-26 DOMESTIC WATER, PRIVATE FIRE LINE AND SANITARY SEWER LINE PLAN  
C-27 PRIVATE SANITARY SEWER PLAN AND PROFILE  
C-28 PRIVATE SANITARY SEWER PLAN AND PROFILE  
C-29 STORM WATER MANAGEMENT PLAN - COVER SHEET  
C-30 STORM WATER MANAGEMENT PLAN  
C-31 PUBLIC WATER LINE PLAN - COVER SHEET  
C-32 PUBLIC WATER LINE PLAN  
C-33 PUBLIC WATER LINE PLAN  
C-34 PUBLIC WATER LINE PLAN  
C-35 PUBLIC WATER LINE PLAN

ONSITE STORM DRAIN QUANTITIES:

1. DOUBLE CATCH BASIN (MAG STANDARD DETAIL NO. 537)  
2. SINGLE CATCH BASIN (MAG STANDARD DETAIL NO. 537)  
3. AREA DRAIN  
4. 4" H.D.P.E. DRAINAGE PIPE  
5. 6" H.D.P.E. DRAINAGE PIPE  
6. 8" H.D.P.E. DRAINAGE PIPE  
7. 12" H.D.P.E. DRAINAGE PIPE  
8. 15" H.D.P.E. DRAINAGE PIPE  
9. 18" H.D.P.E. DRAINAGE PIPE  
10. 24" H.D.P.E. DRAINAGE PIPE  
11. DUAL CHAMBER DRYWELL  
12. GREASE INTERCEPTOR

- 12 EA  
11 EA  
18 EA  
143 LF  
52 LF  
280 LF  
1040 LF  
390 LF  
435 LF  
567 LF  
8 EA  
1 EA

IMPROVEMENT PLANS

FOR

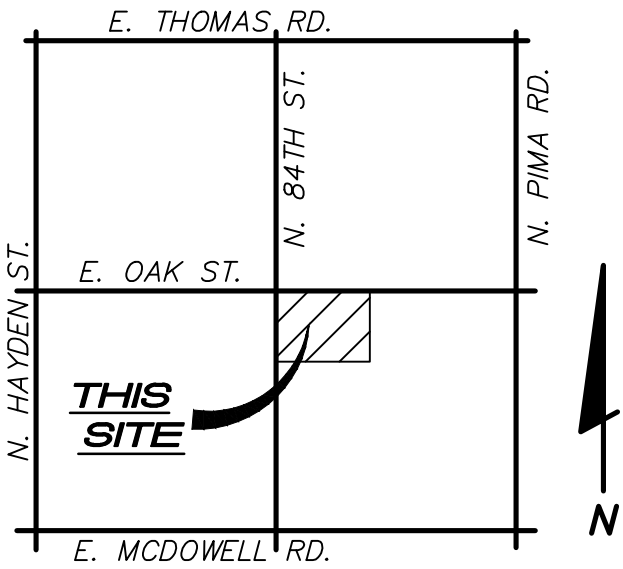
HOHOKAM TRADITIONAL SCHOOL

SITE ADDRESS: 8451 E. OAK ST., SCOTTSDALE, AZ 85257

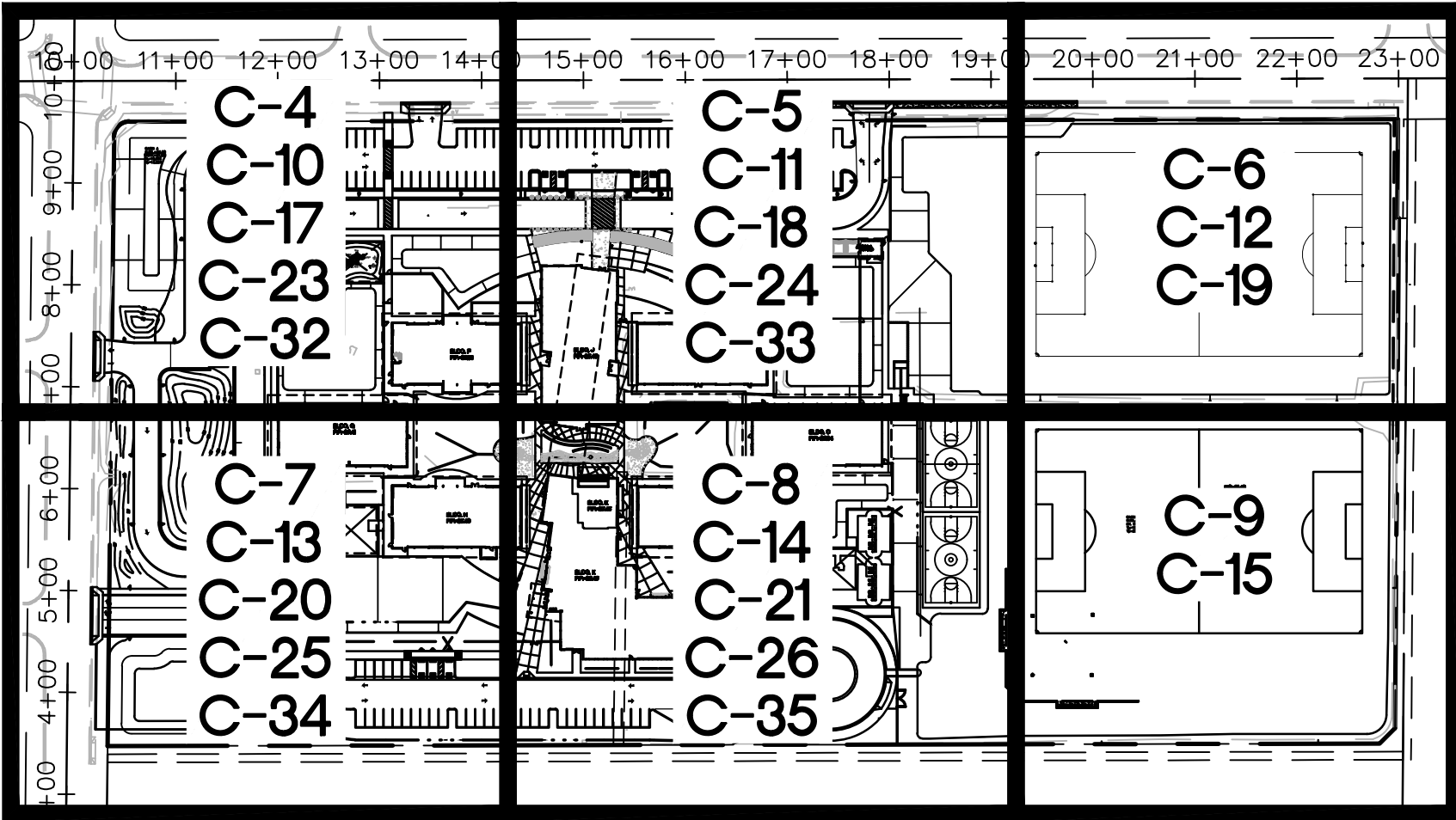
FOR

SCOTTSDALE UNIFIED SCHOOL DISTRICT NO. 48

7575 E. MAIN STREET,  
SCOTTSDALE, ARIZONA 85251  
PHONE: (480) 484-6100  
CONTACT: DENNIS ROEHLER



VICINITY MAP  
NOT TO SCALE



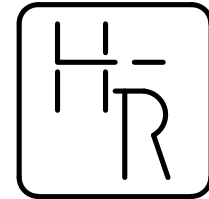
SHEET INDEX MAP  
NOT TO SCALE

NOTE:

IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (A.A.C.) R18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1ST, 1993, WHICH MAY COME INTO CONTACT WITH DRINKING WATER, SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.

DWR-20-00371  
WWR-20-00289

Certificate of Approval to Construct	Maricopa County Environmental Services Department
	Water and Waste Management Division
MCESD #	
Public Water System ID Number 0407- Project Description:	(and/or) Waste Water System ID Number 0437-
Project Location:	
Project Owner:	
Pursuant to AAC Title 18; Chapter 4, Article 5; or AAC Title 18; Chapter 9, Article 8; and/or Maricopa County Environmental Health Code Chapters II or V. This certificate of Approval to Construct the above described facilities as represented in the attached plan is valid upon review and signature by a Maricopa County Environmental Services Department's representative given the following provisions. 1.) A Request for Certificate of Approval of Construction, together with an Engineer's Certificate of Completion, and sealed engineered as-built plans, shall be submitted to this Department prior to Approval of Construction and startup. 2.) The Approval to Construct is void if major modifications occur to the plans without the knowledge and consent of the department. If Construction has not started within one year of the approval date, this certificate will be void. An extension of time may be available upon written request.	
Approved By:	Date Approved:
CC: MCESD FILE; ADEQ	
Engineer; AZ. Corp. Commission	



HESS - ROUNTREE, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

OFFSITE QUANTITIES:

1. 8" TEE AND 8" VALVE, BOX AND COVER (C. O. S. STD. DETAIL NO. 2362-2), 2 EA  
2. 8" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350), 2545 LF  
3. 8"-90' BEND, 2 EA  
4. 8"-45' BEND, 10 EA  
5. 8" X 6" X 8" TEE, 4 EA  
6. 6" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350), 99 LF  
7. 8" X 8" X 8" TEE, 5 EA  
8. 8" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT, 12 EA  
9. 6" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT, 4 EA  
10. FIRE HYDRANT WITH CONCRETE COLLAR, 5 EA  
11. SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT (C.O.S. S.D. NO. 2200 (T-TOP), 46 SY  
12. SAWCUT, REMOVE AND REPLACE VERTICAL CURB AND GUTTER (MAG S.D. NO. 220, TYPE 'A'), 10 LF  
13. 1'-1/2" WATER SERVICE, METER AND BOX FOR LANDSCAPE WATER, 2 EA  
14. SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT (C.O.S. S.D. NO. 2200 (T-TOP) & 2201, TYPE 'A'), 12 SY  
15. SAWCUT, REMOVE AND REPLACE VERTICAL CURB AND GUTTER (MAG S.D. NO. 220-1, TYPE "A"), 9 LF  
16. CONCRETE SINGLE CURB (MAG STANDARD DETAIL NO. 222, TYPE 'A'), 50 LF  
17. CONCRETE VERTICAL CURB AND GUTTER (MAG STANDARD DETAIL NO. 220-1, TYPE A), 259 LF  
18. CONCRETE SIDEWALK (MAG STANDARD DETAIL NO. 230), 1,148 SF  
19. CONCRETE DRIVEWAY ENTRANCE (C.O.S. SD NO. 2256, TYPE PER PLAN), 4 EA

NOTES FOR IMPROVEMENT PLANS

WHERE THERE IS EXISTING ACP OR PVC PIPE

ANY WATER LINE PROJECT THAT INVOLVES CONNECTING TO AN EXISTING ACP OR PVC PIPE, REQUIRES SPECIAL ATTENTION PER DSPM SECTION 6-1.408:

FITTINGS INSTALLED INTO ASBESTOS CEMENT PIPE (ACP) OR PVC PIPE WITHIN 6- FEET OF ANOTHER FITTING OR JOINT WILL REQUIRE THAT SECTION OF PIPE TO BE REMOVED AND REPLACED WITH DUCTILE IRON PIPE (DIP). EXISTING TEES, TAPPING SLEEVES AND RELATED APPURTENANCES THAT ARE NOT UTILIZED BY THE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR. A MINIMUM 3-FOOT SECTION OF PIPE SHALL BE REMOVED, WITH NO LESS THAN 6- FEET REMAINING TO THE NEAREST JOINT. THE REMOVED PIPE SHALL BE REPLACED WITH DIP.

WHEN MORE THEN 3- FEET OF EXISTING ACP OR PVC WATER LINES ARE EXPOSED DURING CONSTRUCTION AND THE BEDDING IS DISTURBED, THE WATER LINE MUST BE REPLACED WITH DIP (MINIMUM CLASS 350) WITH MECHANICAL JOINTS OR FLANGED JOINTS TO 3- FEET PAST THE SIDES OF THE EXPOSED CROSSING TRENCH. REFER TO MAG STANDARD DETAIL NO. 403-3

NO TAPPING SLEEVE AND VALVE SHALL BE USED ON ACP PIPE. VALVES WILL NEED TO BE CUT INTO ACP PIPE.

DISPOSAL OF MATERIALS CONTAINING ASBESTOS AND/OR LEAD SHALL BE IN CONFORMANCE WITH ALL REGULATIONS, LAWS AND ORDINANCES.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION AS SHOWN HEREON WAS MADE UNDER MY SUPERVISION, OR AS NOTED, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED PROFESSIONAL ENGINEER OR  
REGISTERED LAND SURVEYOR DATE

CIVIL APPROVAL

REVIEW & RECOMMENDED APPROVAL BY:

PAVING	TRAFFIC
G & D	PLANNING
W & S	FIRE
RET. WALLS	

ENGINEERING COORDINATION  
MANAGER OR DESIGNEE

DATE

COVER SHEET

SCOTTSDALE UNIFIED SCHOOL DISTRICT #48

IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL

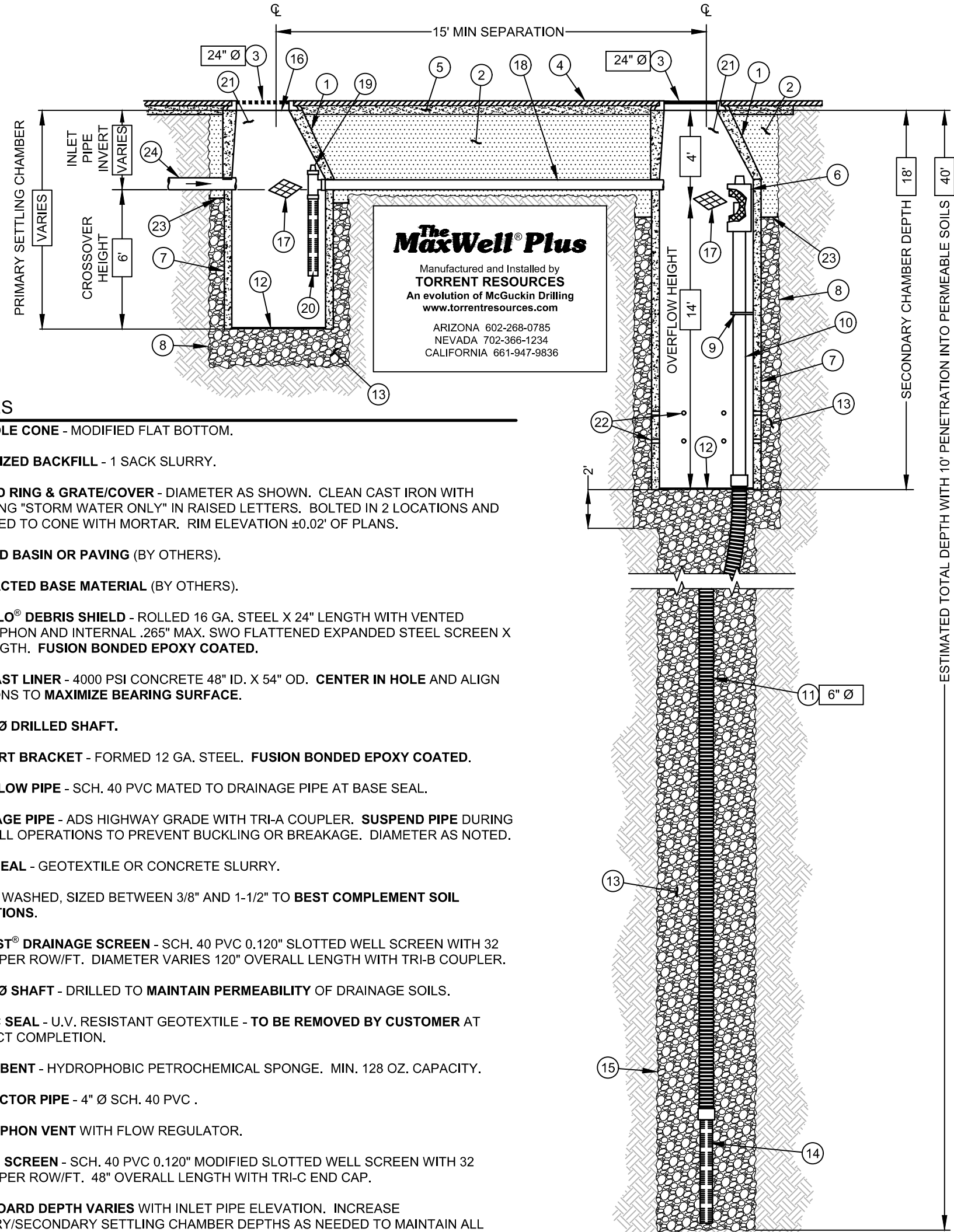
DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
	1	35	C-1
DATE:	6/29/20		



PLAN CHECK #1650-20-2



The MaxWell® Plus Drainage System Detail And Specifications



NOTES

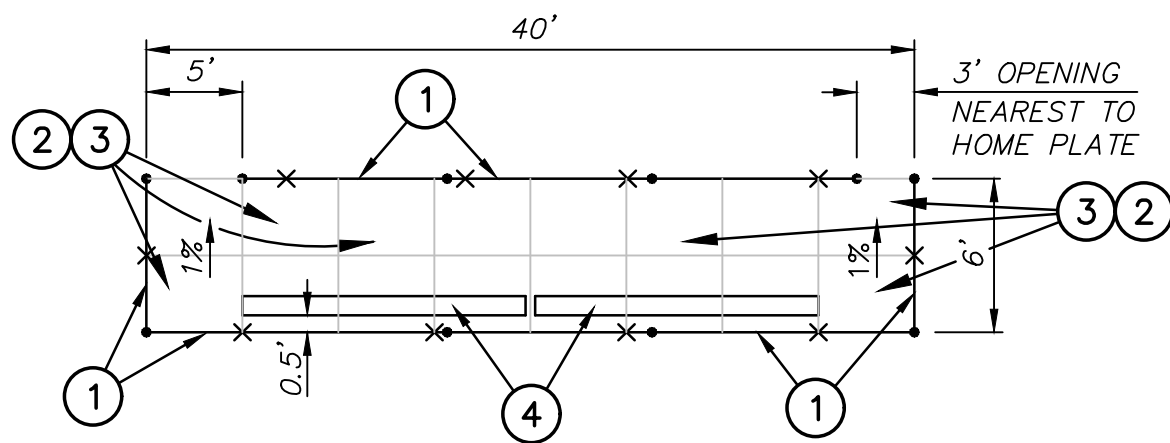
1. MANHOLE CONE - MODIFIED FLAT BOTTOM.
2. STABILIZED BACKFILL - 1 SACK SLURRY.
3. BOLTED RING & GRATE/COVER - DIAMETER AS SHOWN. CLEAN CAST IRON WITH WORDING "STORM WATER ONLY" IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURED TO CONE WITH MORTAR. RIM ELEVATION ±0.02' OF PLANS.
4. GRADED BASIN OR PAVING (BY OTHERS).
5. COMPACTED BASE MATERIAL (BY OTHERS).
6. PUREFLO® DEBRIS SHIELD - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. FUSION BONDED EPOXY COATED.
7. PRE-CAST LINER - 4000 PSI CONCRETE 48" ID. X 54" OD. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.
8. MIN. 6" Ø DRILLED SHAFT.
9. SUPPORT BRACKET - FORMED 12 GA. STEEL. FUSION BONDED EPOXY COATED.
10. OVERFLOW PIPE - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
11. DRAINAGE PIPE - ADS HIGHWAY GRADE WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
12. BASE SEAL - GEOTEXTILE OR CONCRETE SLURRY.
13. ROCK - WASHED, SIZED BETWEEN 3/8" AND 1-1/2" TO BEST COMPLEMENT SOIL CONDITIONS.
14. FLOFAST® DRAINAGE SCREEN - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. DIAMETER VARIES 120" OVERALL LENGTH WITH TRI-B COUPLER.
15. MIN. 4" Ø SHAFT - DRILLED TO MAINTAIN PERMEABILITY OF DRAINAGE SOILS.
16. FABRIC SEAL - U.V. RESISTANT GEOTEXTILE - TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION.
17. ABSORBENT - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY.
18. CONNECTOR PIPE - 4" Ø SCH. 40 PVC.
19. ANTI-SIPHON VENT WITH FLOW REGULATOR.
20. INTAKE SCREEN - SCH. 40 PVC 0.120" MODIFIED SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 48" OVERALL LENGTH WITH TRI-C END CAP.
21. FREEBOARD DEPTH VARIES WITH INLET PIPE ELEVATION. INCREASE PRIMARY/SECONDARY SETTLING CHAMBER DEPTHS AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE CONNECTOR PIPE OVERFLOW.
22. EIGHT (8) PERFORATIONS PER FOOT. 2 ROWS MIN.
23. MOISTURE MEMBRANE - 6 MIL. PLASTIC. PLACE SECURELY AGAINST ECCENTRIC CONE AND HOLE SIDEWALL. USED IN LIEU OF SLURRY IN LANDSCAPED AREAS.
24. INLET PIPE (BY OTHERS).

AZ Lic. R00270465 A. R002647067 B-4. ADWR 363  
CA Lic. 508891. C-42. H-42.  
NV Lic. 0033050 A - NM Lic. 96004. GP04  
U.S. Patent No. 4,923,330 - 1"™ Trademark 1974, 1990, 2004

AZ MAXWELL PLUS

- NOTES:
1. INSTALL 8" WIDE BY 8" THICK CONCRETE COLLAR AROUND GRATE (MAG CLASS B CONCRETE).
  2. CONTRACTOR TO REGISTER DRYWELL WITH ADEQ.
  3. SEE CIVIL PLANS FOR INVERT ELEVATIONS.

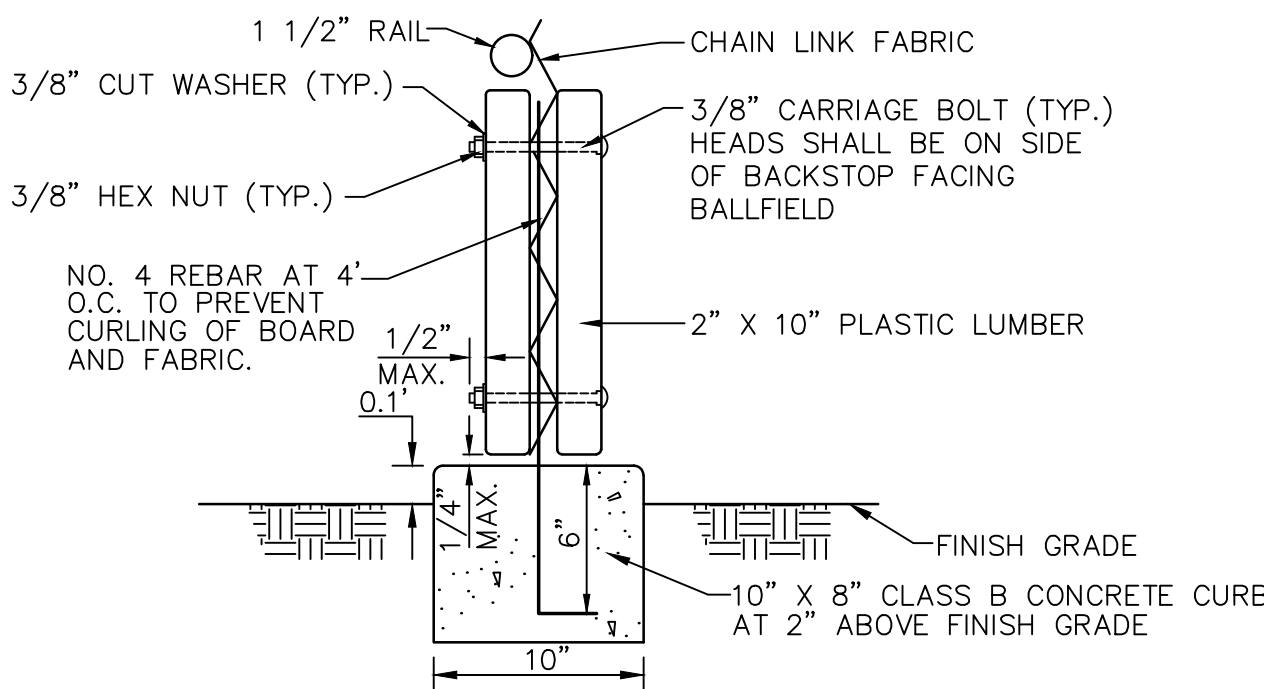
DUAL CHAMBER DRYWELL  
NOT TO SCALE



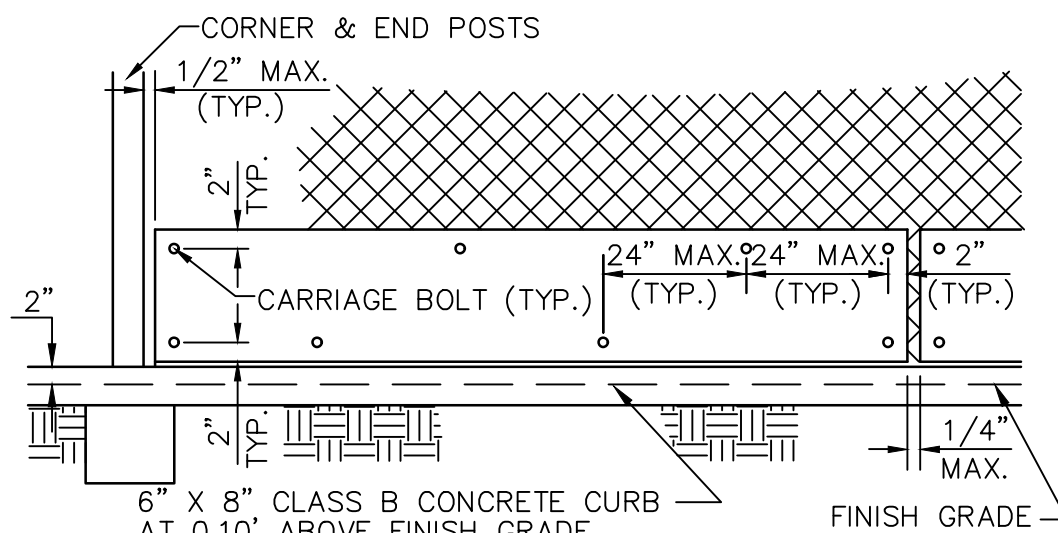
DUGOUT DETAIL  
NOT TO SCALE

CONSTRUCTION NOTES:

1. INSTALL 8' HIGH CHAIN LINK FENCE WITH TOP, MID AND BOTTOM RAIL. MIDRAIL SHALL BE 3' HIGH IN FRONT OF DUGOUTS.
2. INSTALL 4" THICK CONCRETE FLOOR IN DUGOUT (MAG STANDARD DETAIL NO. 230).
3. INSTALL RUBBER MAT ON TOP OF CONCRETE IN DUGOUT (1/2" THICK EXTRA STRONG REDJ-MATS AS MANUFACTURED BY RECYCLED TECHNOLOGIES (503-691-5845) OR APPROVED EQUAL). MATS SHALL BE GLUED TOGETHER PER MANUFACTURERS RECOMMENDATIONS.
4. INSTALL TWO PATTERSON-WILLIAMS MODEL 1103-15, ALUMINUM, 15-FOOT LONG BENCHES OR EQUAL APPROVED BY ARCHITECT. BENCHES TO BUTT TOGETHER TO MAKE 30 FOOT LONG CONTINUOUS BENCH. BACK OF BENCH TO BE SIX INCHES (6") FROM BACK OF DUGOUT CHAIN LINK FENCE.

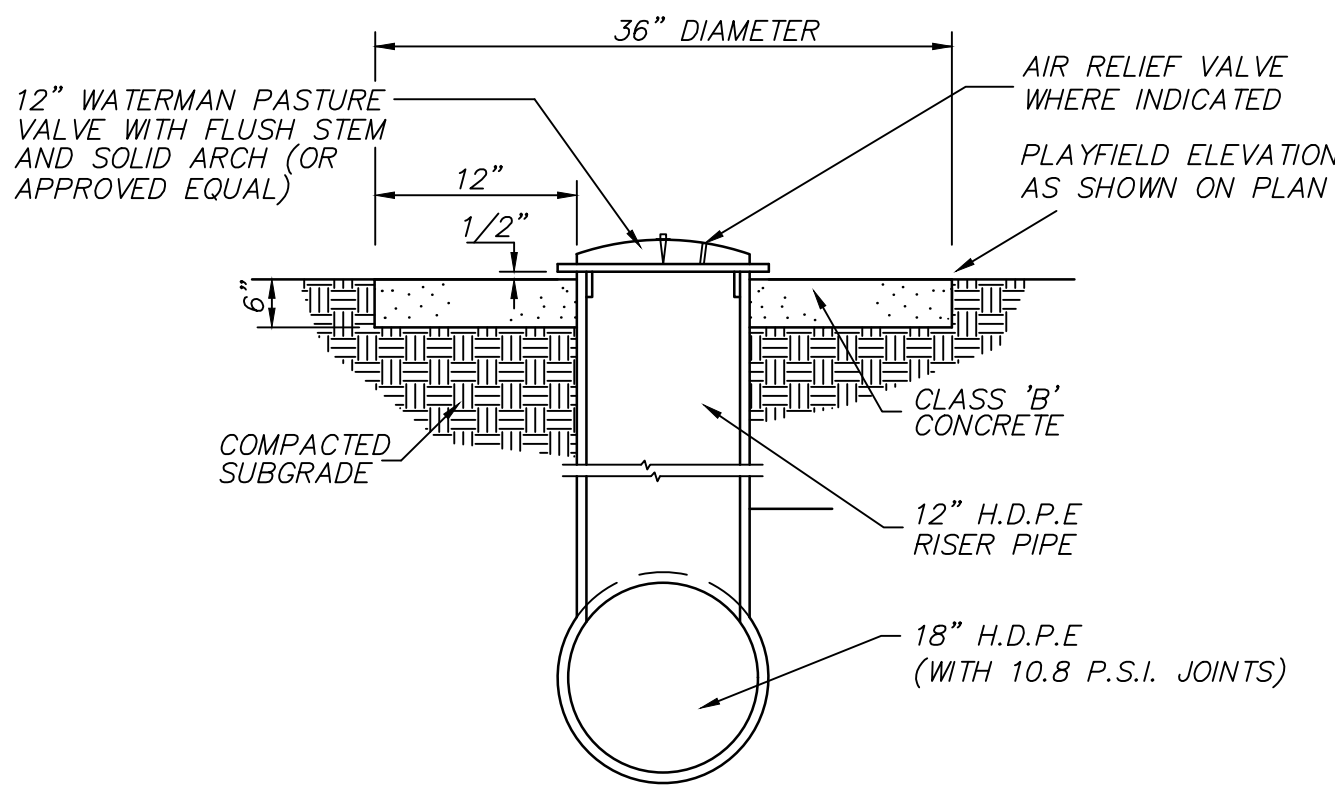


SECTION

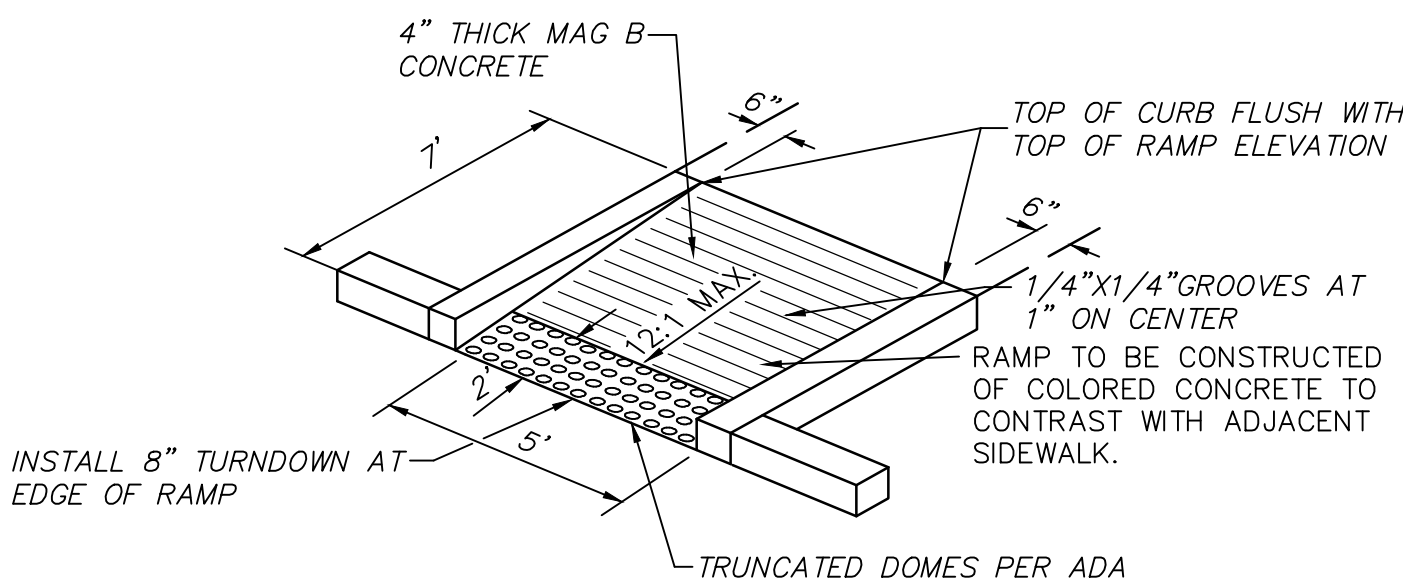


ELEVATION

BACKSTOP PLASTIC BASE BOARDS  
NOT TO SCALE



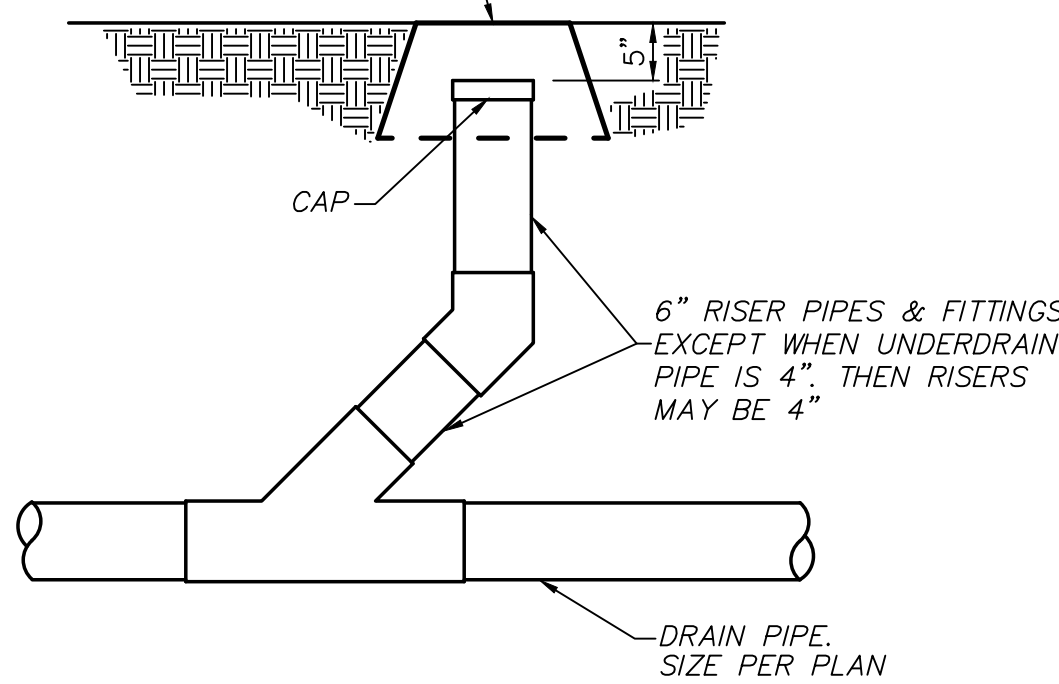
PASTURE VALVE  
NOT TO SCALE



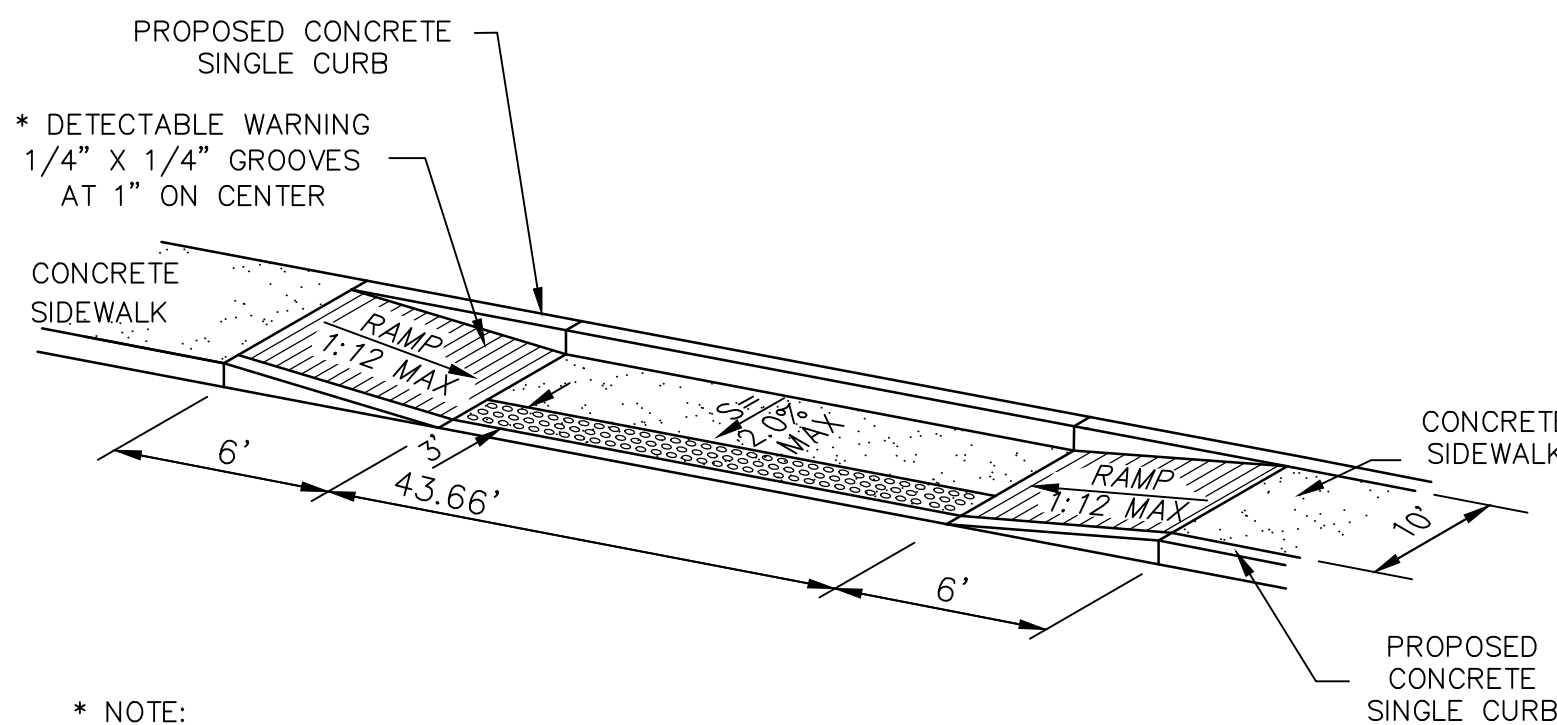
NOTE:  
DETECTABLE WARNING ON WALKING SURFACES PER ADA REQUIREMENTS. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH (23 MM), A HEIGHT NOMINAL 0.2 INCHES (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. COLORS TO BE SELECTED BY OWNER. PROGRESSIVE CONCRETE WORKS (943-7241) IS A LOCAL INSTALLER OF DETECTABLE WARNING PAVEMENT.

SIDEWALK RAMP, TYPE "A"  
NOT TO SCALE

GREEN PLASTIC IRRIGATION BOX (10" DIA.) WITH BOLT LOCK COVER IN LANDSCAPED AREAS. USE TAN COLORED BOX IN GRANITE AREAS. IN PAVED AREAS BOX AND COVER SHALL BE CAST IRON PER MAG S.D. 270 W/ CHAIN ATTACHMENT



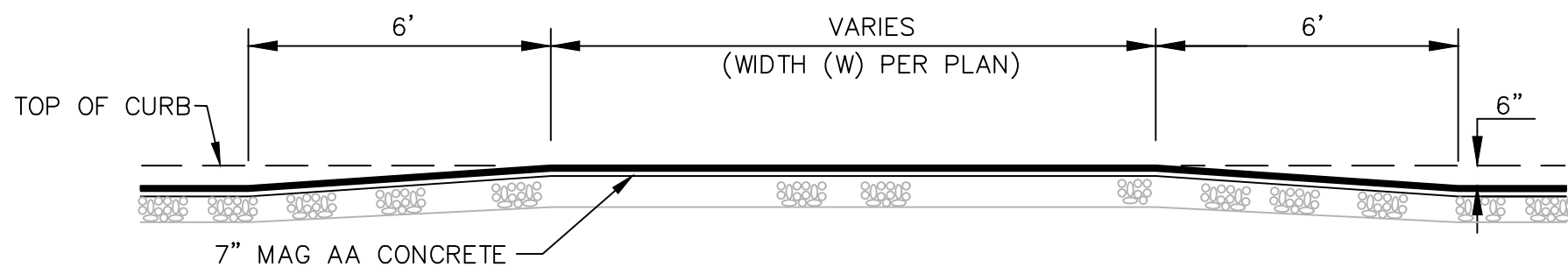
STORM DRAIN CLEANOUT  
NOT TO SCALE



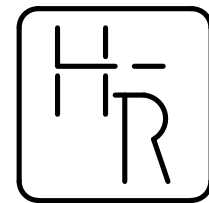
\* NOTE:  
ALL HANDICAP RAMPS SHALL BE INSTALLED WITH TRUNCATED DOME DETECTABLE WARNINGS IN COMPLIANCE WITH THE CITY OF MARICOPA'S SPECIAL PROVISION ADA COMPLIANT HANDICAP RAMP PANELS POLICY. TRUNCATED DOMES MUST BE A REINFORCED, PRE-CAST, SET-IN-PLACE TYPE PRODUCT. SURFACE APPLIED PRODUCTS, PAVERS, OR STAMPED CONCRETE WILL NOT BE ALLOWED FOR NEW INSTALLATIONS.

\*\* WIDTH AS INDICATED ON DRAWINGS

SIDEWALK RAMP TYPE "B"  
NOT TO SCALE

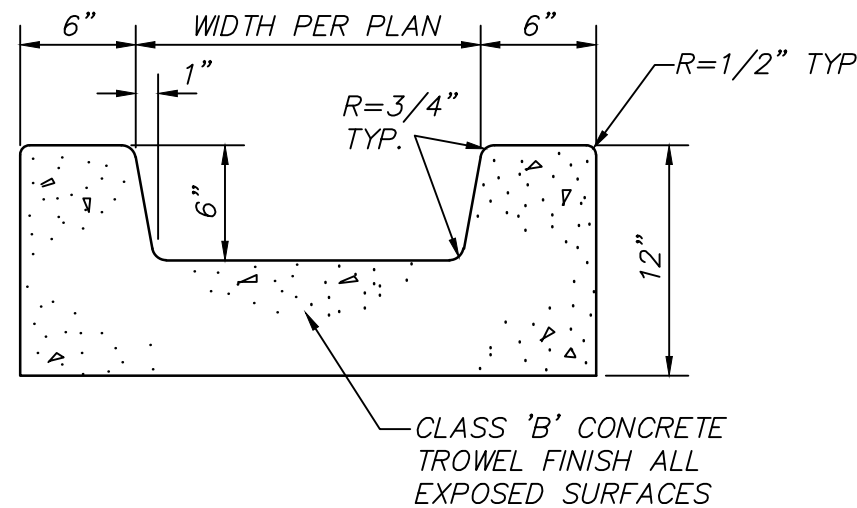


SPEED TABLE  
NOT TO SCALE

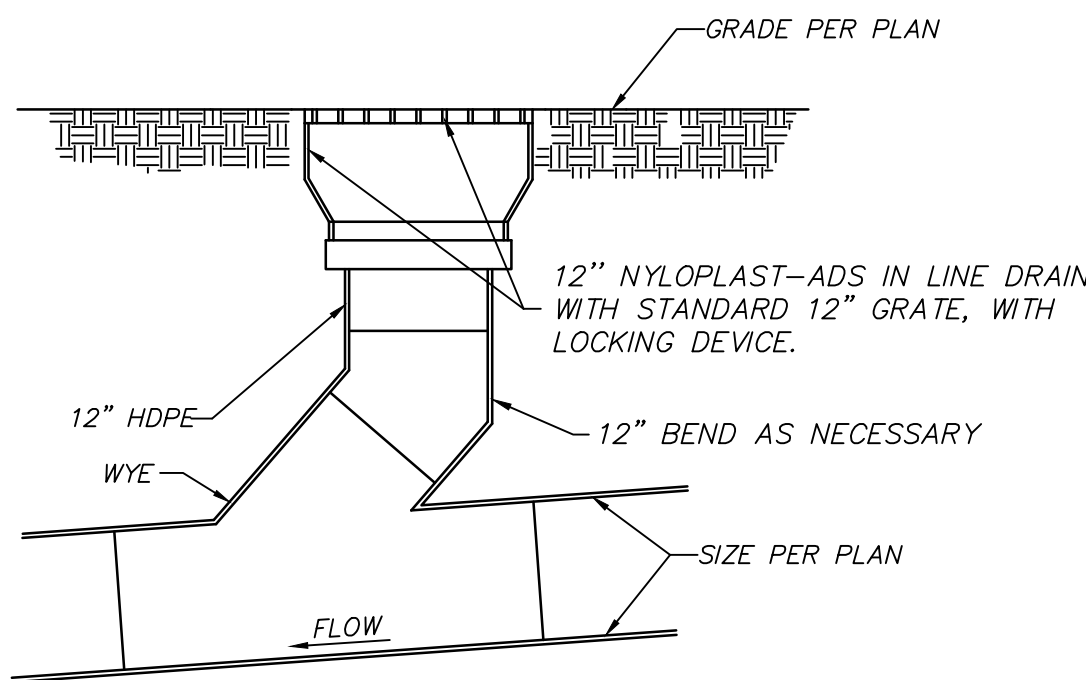


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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**



DRAIN THROUGH  
LANDSCAPED AREAS  
NOT TO SCALE



INSTALL 2 LAYERS OF MIRAFI 100X FABRIC BENEATH GRATE. GENERAL CONTRACTOR TO REMOVE AFTER CONSTRUCTION IS COMPLETE.

AREA DRAIN  
NOT TO SCALE



VE COORD (6-18-20)

DETAIL SHEET

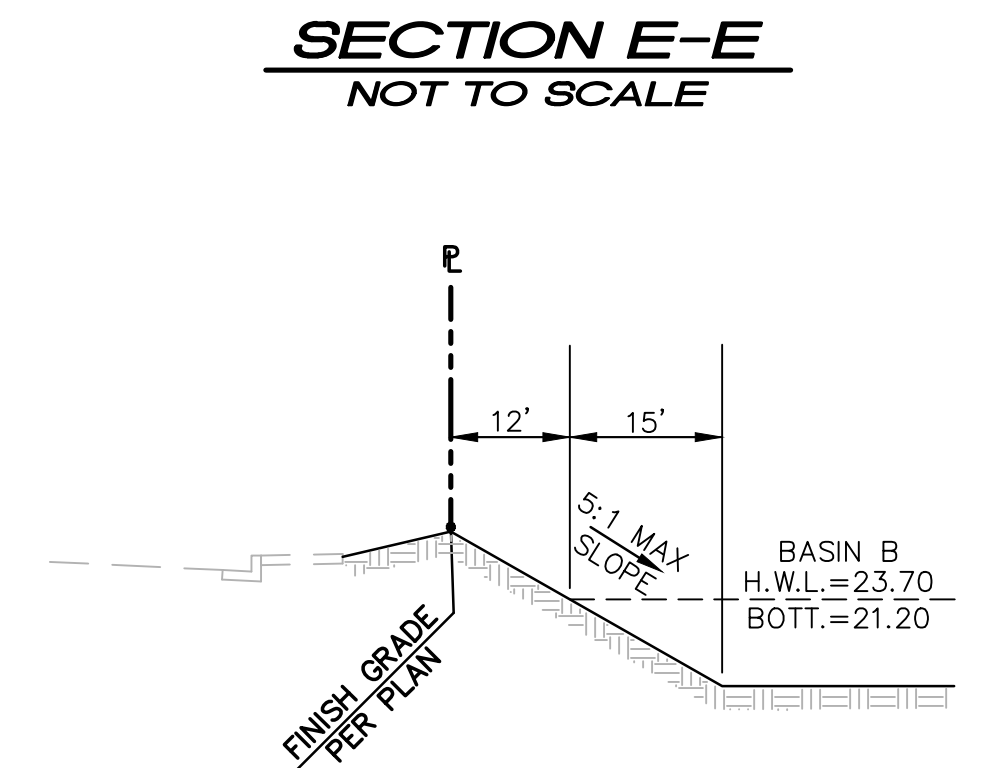
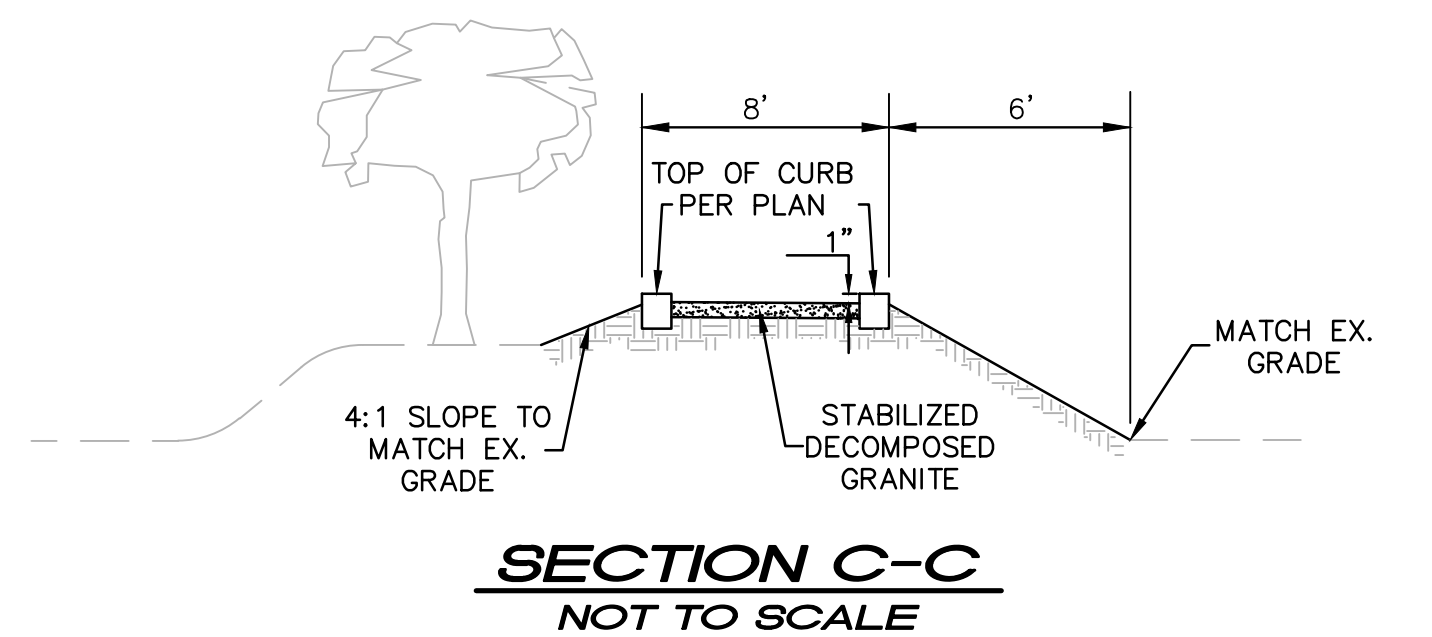
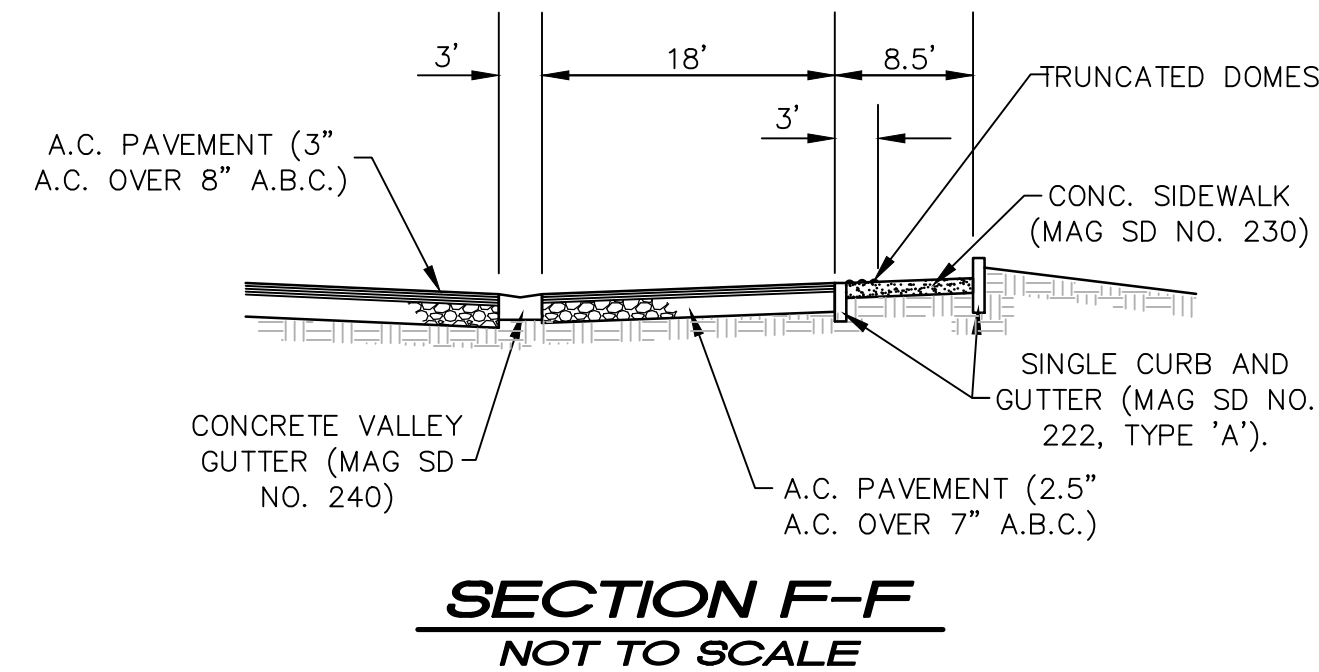
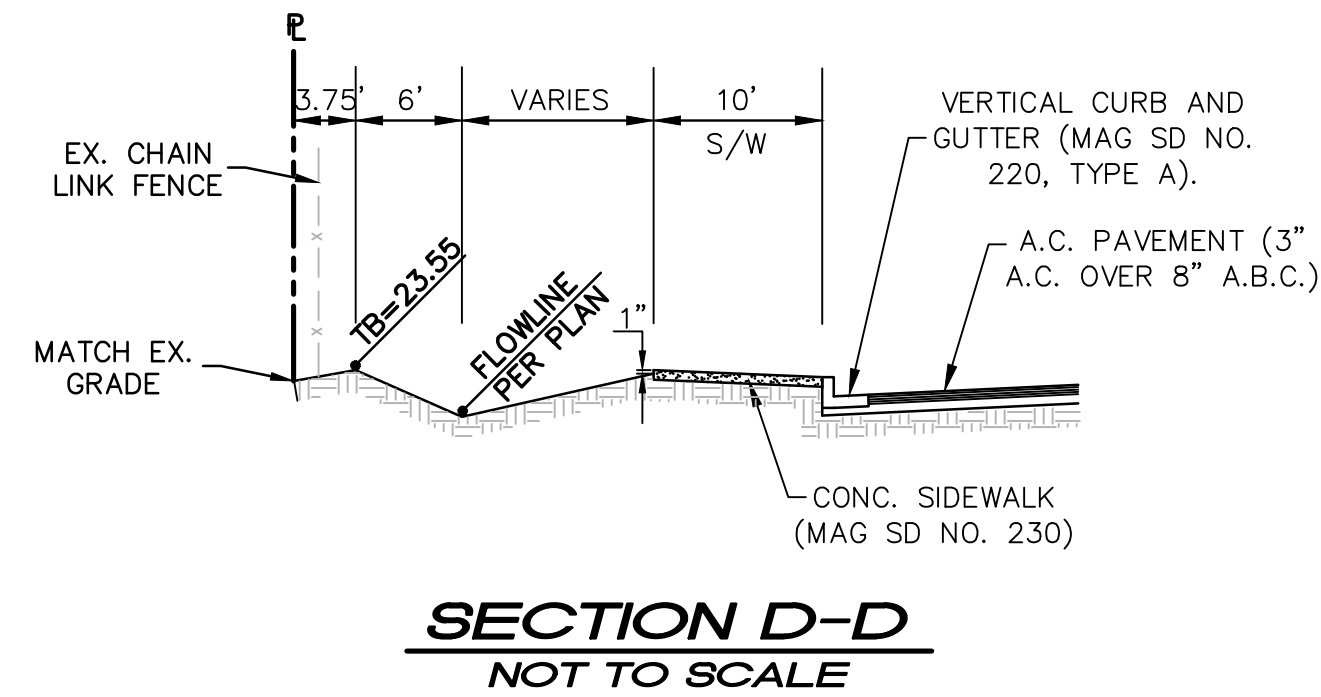
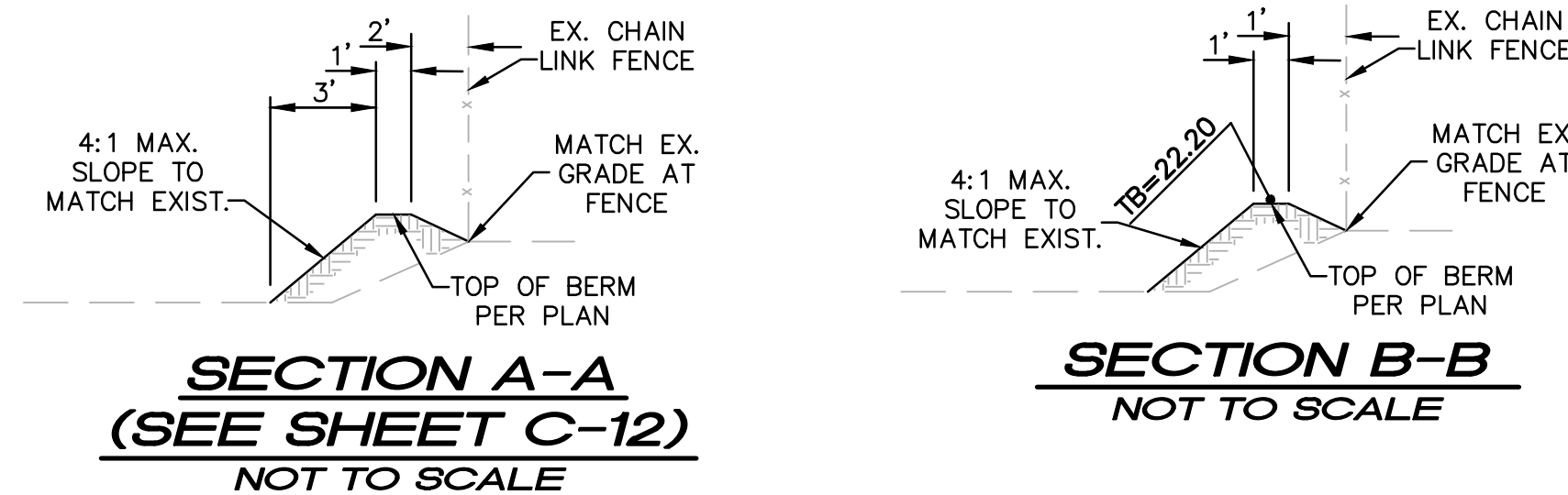
SCOTTSDALE UNIFIED SCHOOL DISTRICT #48

IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	C-2
CONSTRUCTION SET	2	35	
DATE:	6/29/20		



1. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
2. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
5. THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING, SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
6. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
7. ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
8. THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
9. ALL NEW PRIVATE UNDERGROUND UTILITIES (WATER LINES 3" AND LARGER, SEWER LINES, FIRE LINES AND STORM DRAIN LINES SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.



HESS - ROUNTREE, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. <b>DRO</b>	DRN. <b>JCW</b>	CKD. <b>DRO</b>	JOB NO. <b>1704-13</b>
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Call at least two full working days  
before you begin excavation.

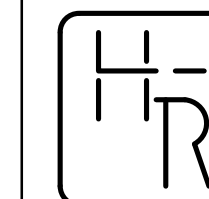
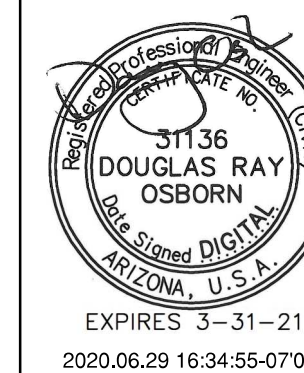
**ARIZONA811**  
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)  
In Maricopa County: (602) 263-1100

DRAWING STATUS	SHEET	OF	C-3
CONSTRUCTION SET			
DATE: 6/29/20			

170413DT2.DWG





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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

### GENERAL DEMOLITION NOTES:

- EXISTING STRUCTURES, MATERIALS, LANDSCAPING, ETC., THAT ARE TO REMAIN, WHICH ARE DAMAGED IN THE PERFORMANCE OF THE WORK, ARE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE IN KIND. THE ARCHITECT AND OWNER SHALL BE THE JUDGE OF ACCEPTABILITY OF REPAIR OR REPLACEMENT.
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- SECURITY AND SAFETY ARE THE CONTRACTOR'S SOLE RESPONSIBILITY.
- FOR ALL SALVAGED SHADE STRUCTURES AND PLAY EQUIPMENT, THE FOOTINGS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE. CUT SUPPORT POSTS AT THE TOP OF FOOTING.
- SAWCUT SIDEWALKS AND CONCRETE AT NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR.
- SAWCUT ASPHALTIC CONCRETE AT LIMITS OF DEMOLITION AS SHOWN ON PLANS OR AS DIRECTED BY THE CITY INSPECTOR.
- SALVAGE ITEMS NOT BEING REINSTALLED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE YARD.
- ONSITE UTILITIES OUTSIDE THE NEW BUILDING PAD AREAS SHALL BE ABANDONED IN PLACE IF THEY DO NOT CONFLICT WITH GRADING AND NEW UTILITIES. IF THEY DO CONFLICT, REMOVE THE UTILITY AND CAP ALL OPENINGS TO THE REMAINING LINE. ALL UTILITIES WITHIN THE NEW BUILDING PAD SHALL BE REMOVED AND THE REMAINING UTILITIES CAPPED AT THE PERIMETER OF THE BUILDING PAD.
- ALL EXISTING TREES THAT ARE NOT CALLED OUT TO BE RELOCATED OR REMAIN IN PLACE SHALL BE REMOVED ALONG WITH THE ROOTS TO 2' BELOW GRADE.

### SPECIFIC DEMOLITION NOTES:

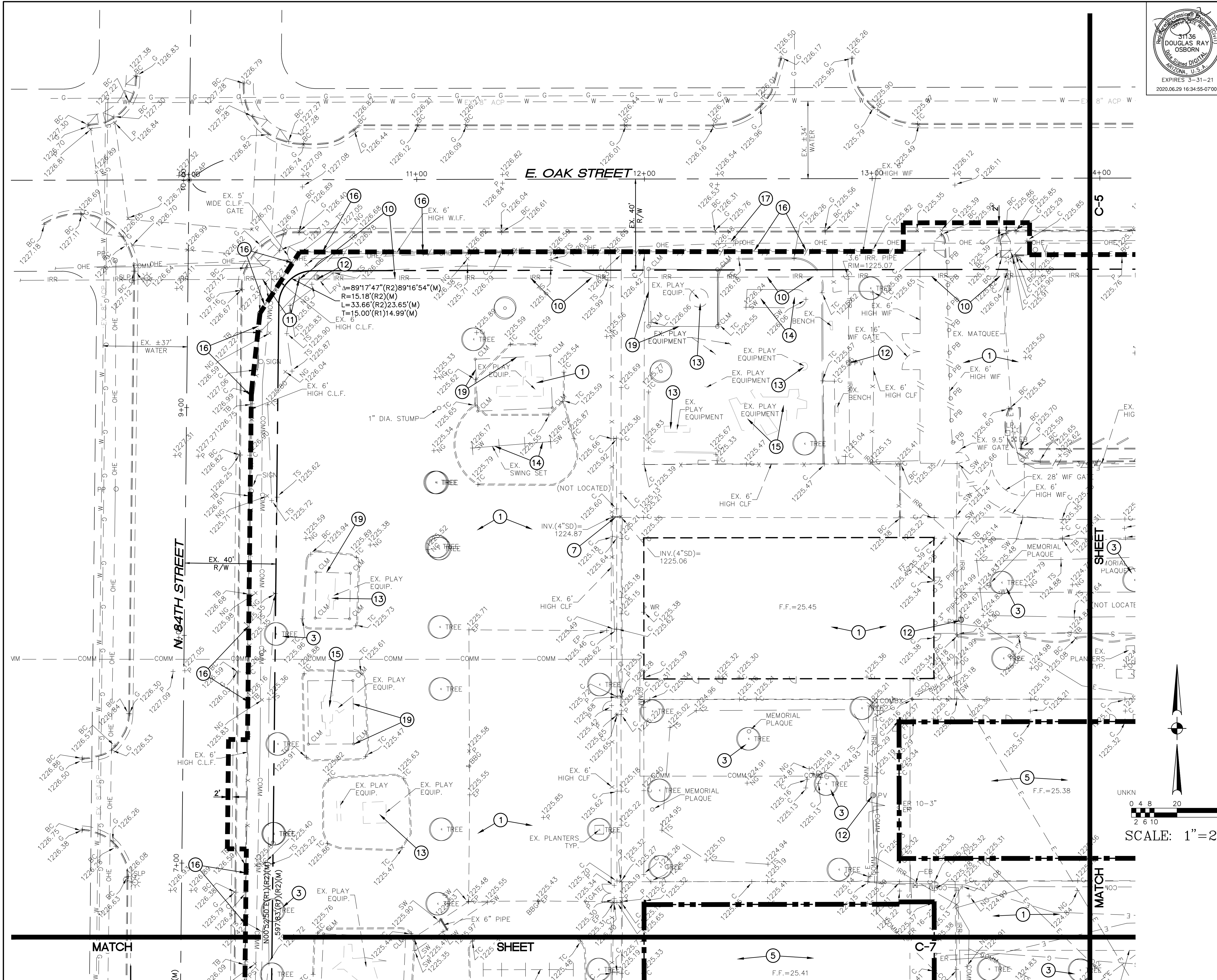
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### TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

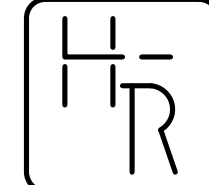
#### SCOTTSDALE UNIFIED SCHOOL DISTRICT #48

#### IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
	4	35	C-4
DATE:	6/29/20		







HESS - ROUNTREE, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

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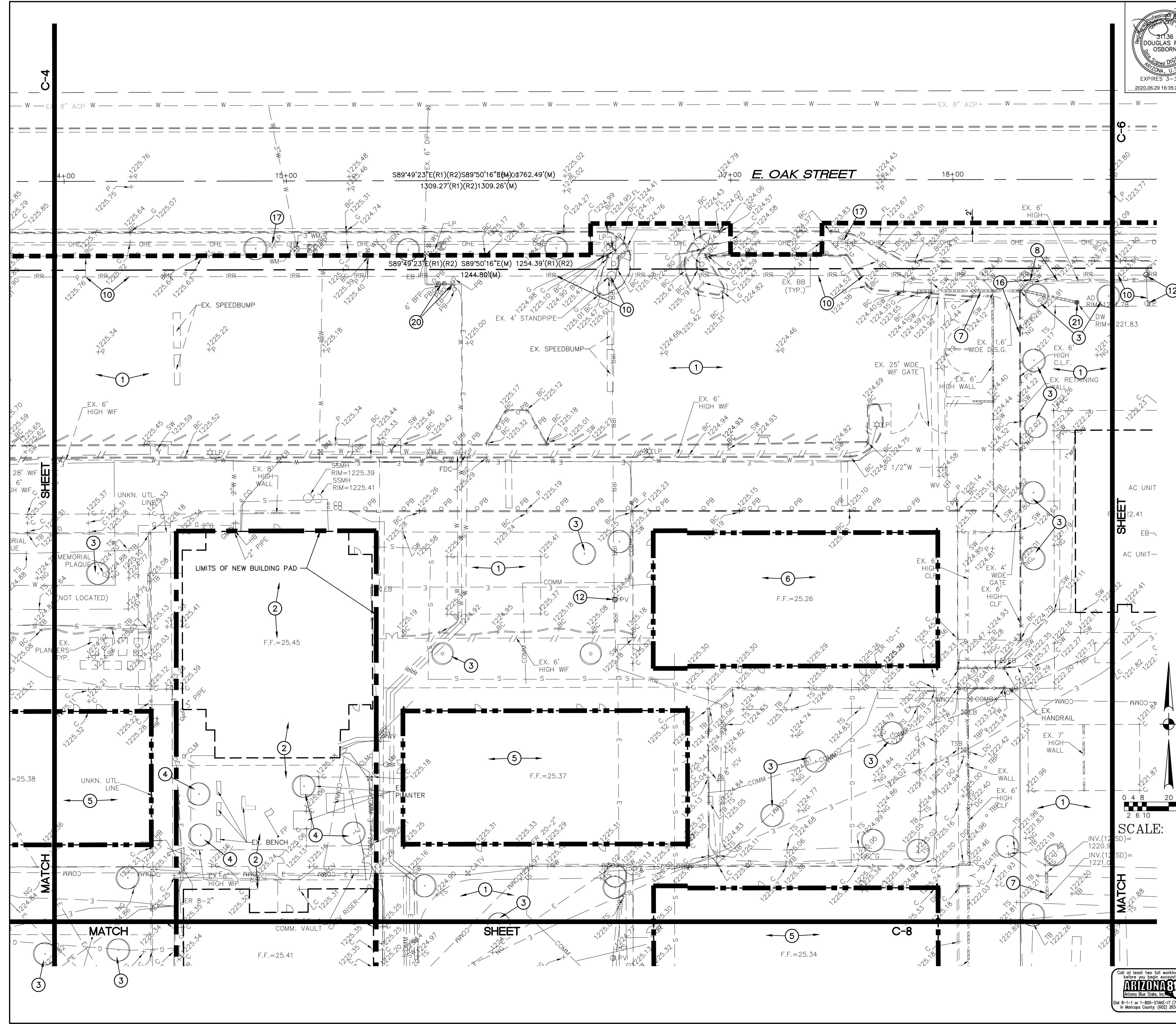
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**TOPOGRAPHIC SURVEY AND DEMOLITION PLAN**

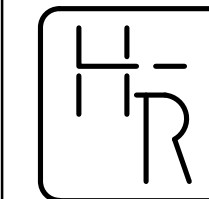
**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	C-5
CONSTRUCTION SET	5	35	
DATE: 6/29/20			







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DES. <b>DRO</b>	DRN. <b>JCW</b>	CKD. <b>DRO</b>	JOB NO. <b>1704-13</b>
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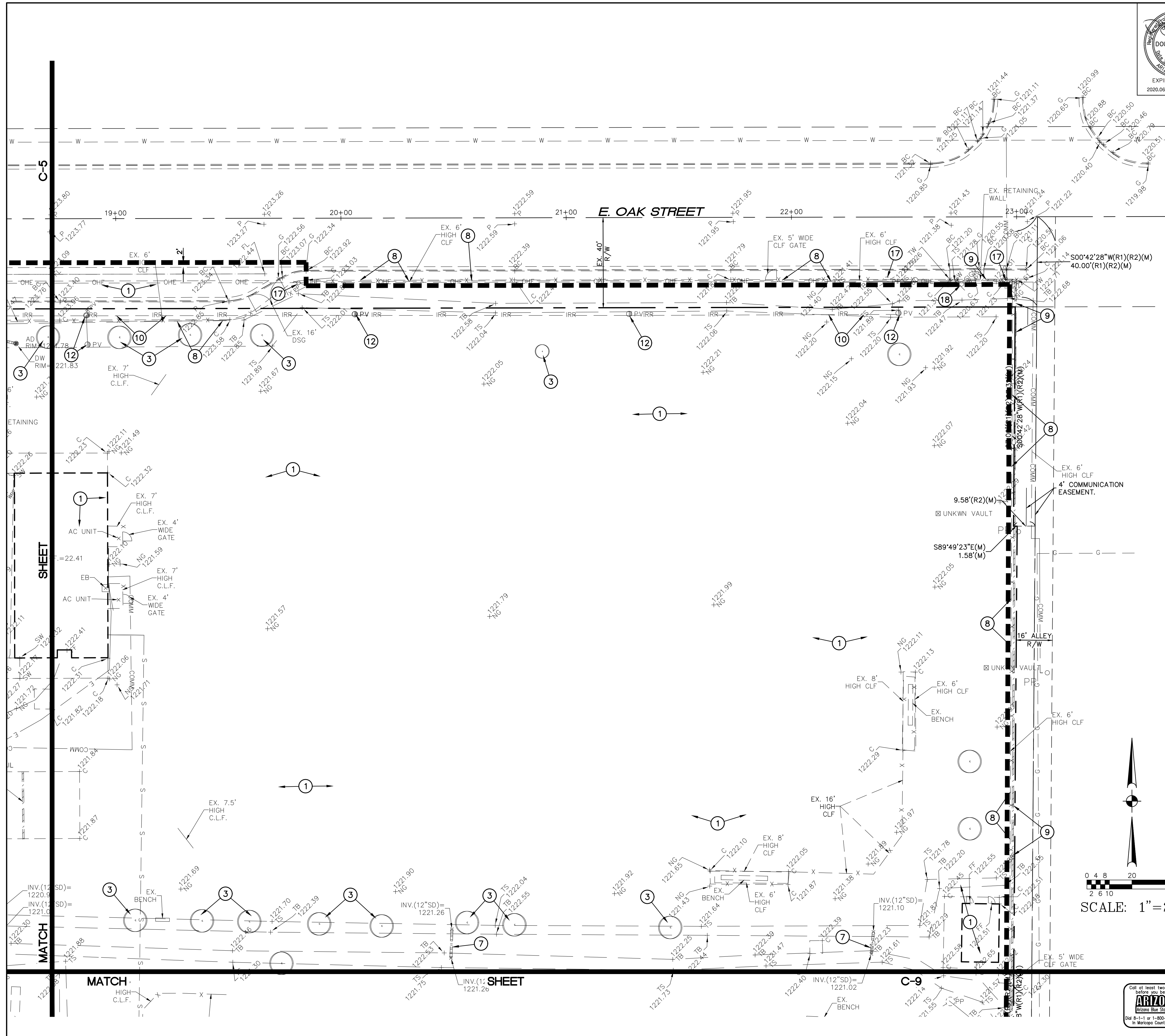
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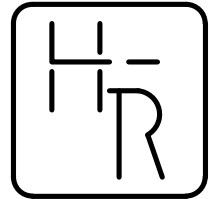
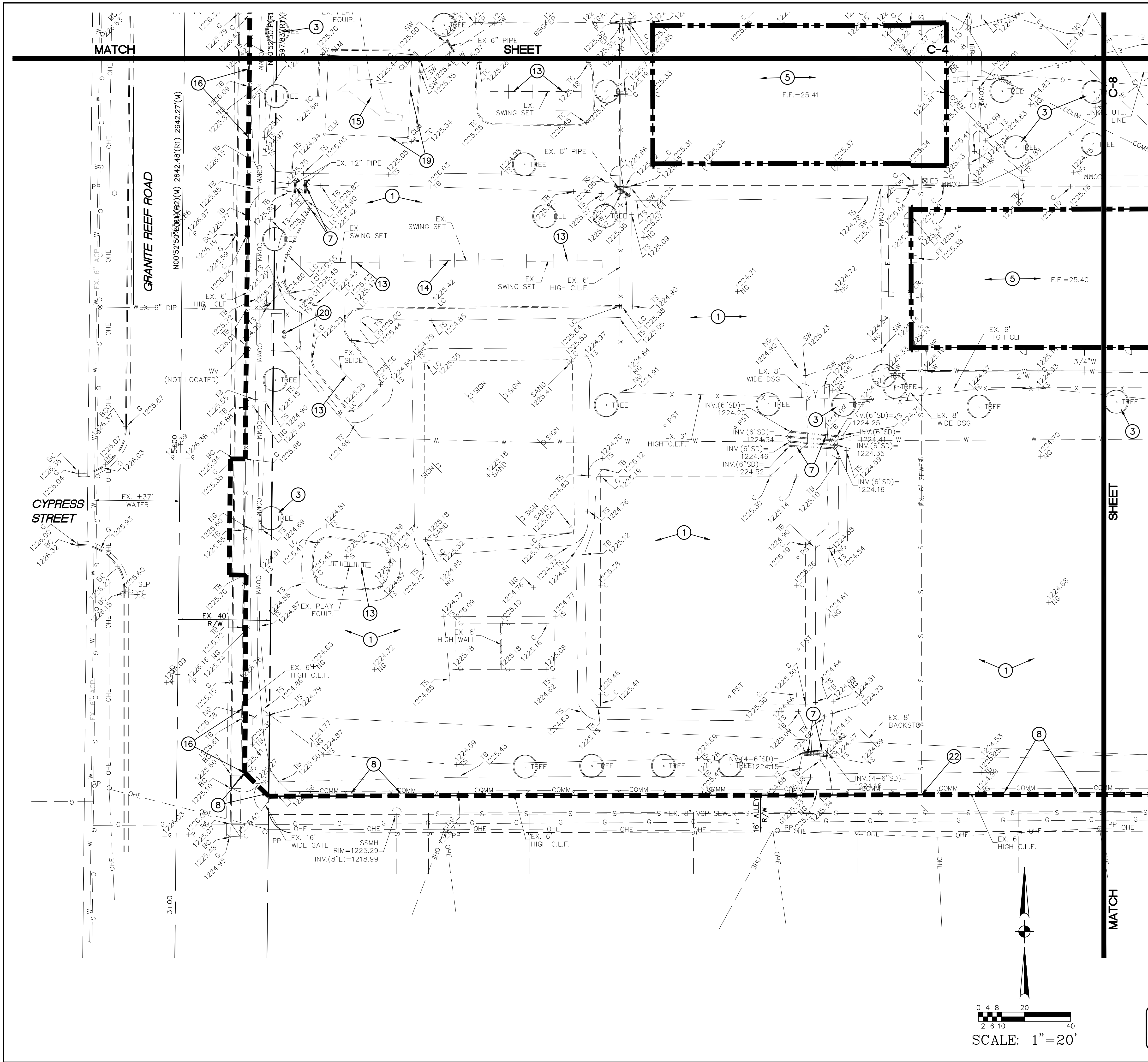
## TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-6
CONSTRUCTION SET			
	6	35	
DATE: 6/29/20			







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- SALVAGE AND DELIVER SHADE STRUCTURE TO SCHOOL DISTRICT FOR REINSTALLATION ON THE SITE.
- REMOVE EXISTING BACKFLOW PREVENTER AND ALL WATER LINE FROM RIGHT OF WAY. CAP WATER LINE AT PROPERTY LINE. SEE PUBLIC WATER LINE PLANS FOR WORK IN THE RIGHT OF WAY.
- EXISTING DRYWELL TO REMAIN. PROTECT FROM DAMAGE.
- EXISTING SEWER TAP SHALL BE CAPPED AT THE PROPERTY LINE AND ABANDONED IN PLACE.

**TOPOGRAPHIC SURVEY AND DEMOLITION PLAN**

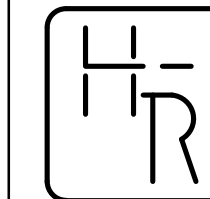
**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
DATE: 6/29/20	7	35	C-7







HESS - ROUNTREE, INC  
CONSULTING ENGINEERS & LAND SURVEYORS  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. <b>DRO</b>	DRN. <b>JCW</b>	CKD. <b>DRO</b>	JOB NO. <b>1704-13</b>
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**GENERAL DEMOLITION NOTES:**

1. EXISTING STRUCTURES, MATERIALS, LANDSCAPING, ETC., THAT ARE TO REMAIN, WHICH ARE DAMAGED IN THE PERFORMANCE OF THE WORK, ARE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE IN KIND. THE ARCHITECT AND OWNER SHALL BE THE JUDGE OF ACCEPTABILITY OF REPAIR OR REPLACEMENT.
2. ALL NON-SALVAGE ITEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
3. SECURITY AND SAFETY ARE THE CONTRACTOR'S SOLE RESPONSIBILITY.
4. FOR ALL SALVAGED SHADE STRUCTURES AND PLAY EQUIPMENT, THE FOOTINGS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE. CUT SUPPORT POSTS AT THE TOP OF FOOTING.
5. SAWCUT SIDEWALKS AND CONCRETE AT NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR.
6. SAWCUT ASPHALTIC CONCRETE AT LIMITS OF DEMOLITION AS SHOWN ON PLANS OR AS DIRECTED BY THE CITY INSPECTOR.
7. SALVAGE ITEMS NOT BEING REINSTALLED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE YARD.
8. ONSITE UTILITIES OUTSIDE THE NEW BUILDING PAD AREAS SHALL BE ABANDONED IN PLACE IF THEY DO NOT CONFLICT WITH GRADING AND NEW UTILITIES. IF THEY DO CONFLICT, REMOVE THE UTILITY AND CAP ALL OPENINGS TO THE REMAINING LINE. ALL UTILITIES WITHIN THE NEW BUILDING PAD SHALL BE REMOVED AND THE REMAINING UTILITIES CAPPED AT THE PERIMETER OF THE BUILDING PAD.
9. ALL EXISTING TREES THAT ARE NOT CALLED OUT TO BE RELOCATED OR REMAIN IN PLACE SHALL BE REMOVED ALONG WITH THE ROOTS TO 2' BELOW GRADE.

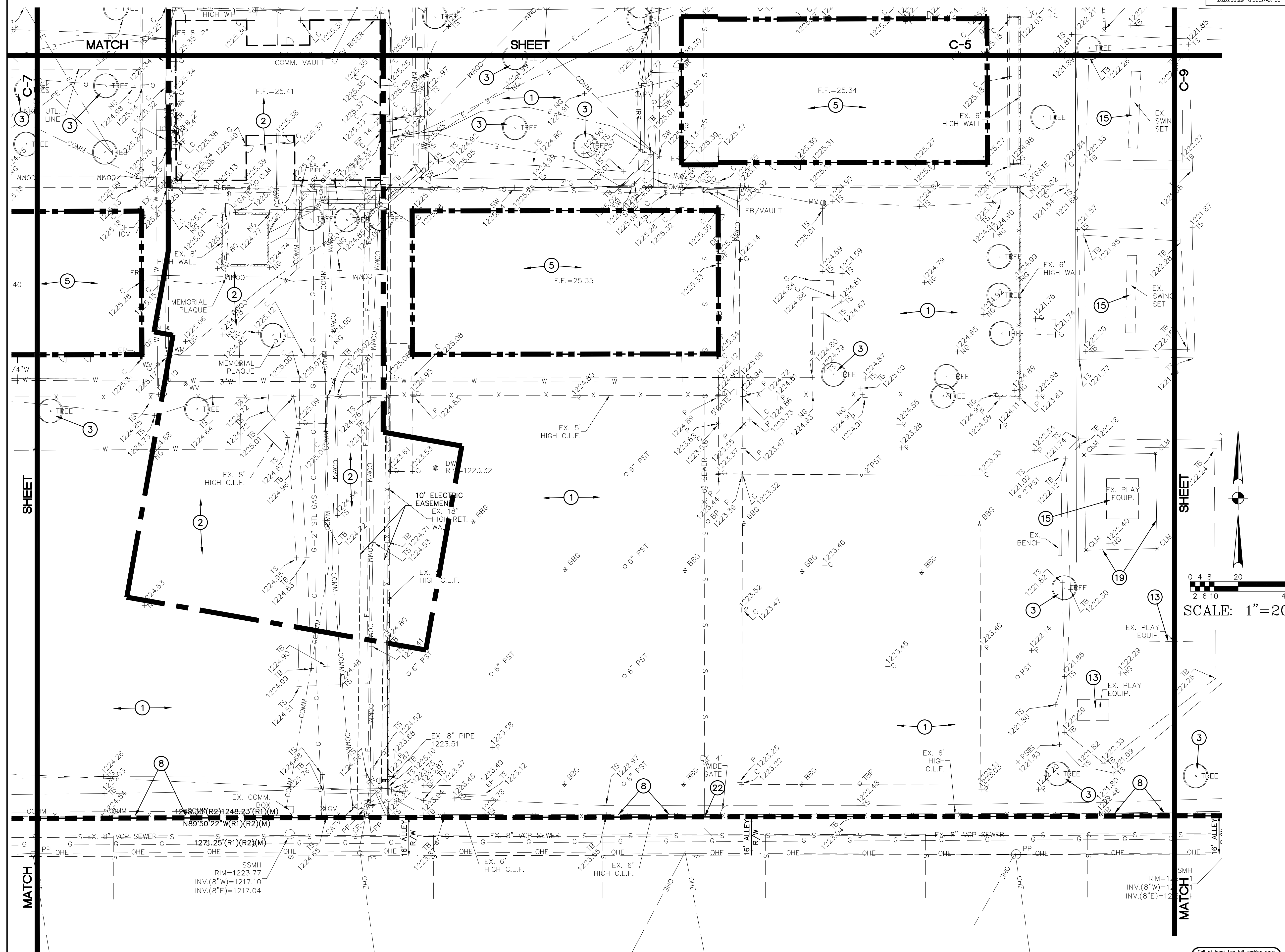
**SPECIFIC DEMOLITION NOTES:**

- 1 WITHIN DEMOLITION AREA, REMOVE AND LEGALLY DISPOSE OF ALL BUILDINGS, CONCRETE, ASPHALT, A.B.C., CONCRETE SIDEWALKS, WALLS, CURBS, TREES AND ANY IMPROVEMENTS EXCEPT ITEMS NOTED TO REMAIN AND BE PROTECTED OR TO BE REMOVED AND SALVAGED. ALL UTILITIES ARE TO BE ABANDONED IN PLACE IF THEY DO NOT CONFLICT WITH GRADING AND NEW UTILITIES. REMOVE AND CAP ALL OPENINGS IN CASE OF A CONFLICT.
- 2 WITHIN THE NEW BUILDING PAD AREA, REMOVE AND LEGALLY DISPOSE OF ALL BUILDINGS, CONCRETE, ASPHALT, A.B.C., CONCRETE SIDEWALKS, WALLS, CURBS AND ANY IMPROVEMENTS EXCEPT ITEMS NOTED TO REMAIN AND BE PROTECTED OR TO BE REMOVED AND SALVAGED. ALL UTILITIES WITHIN THE NEW BUILDING PAD SHALL BE REMOVED AND THE REMAINING UTILITIES CAPPED AT THE PERIMETER OF THE BUILDING PAD.
- 3 EXISTING TREE TO REMAIN. PROTECT FROM DAMAGE.
- 4 EXISTING TREE TO BE RELOCATED. SEE LANDSCAPE PLANS FOR THE NEW LOCATION.
- 5 EXISTING BUILDING AND OVERHANG TO REMAIN. PROTECT FROM DAMAGE. CONCRETE SIDEWALK BENEATH THE OVERHANG SHALL BE REMOVED.
- 6 EXISTING BUILDING TO REMAIN. PART OF EXTERIOR WALLS TO BE REMOVED. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
- 7 EXISTING STORM DRAINAGE PIPES TO BE REMOVED.
- 8 EXISTING FENCE TO REMAIN. PROTECT FROM DAMAGE.
- 9 EXISTING RETAINING WALL TO REMAIN. PROTECT FROM DAMAGE.
- 10 EXISTING FLOOD IRRIGATION LINE AND/OR STANDPIPE TO BE REMOVED.
- 11 EXISTING FLOOD IRRIGATION LINE AND STAND PIPE TO REMAIN AND BE PROTECTED.
- 12 EXISTING PASTURE VALVE TO BE REMOVED. REMOVE RISER PIPE TO 18" BELOW GRADE AND CAP.
- 13 EXISTING PLAY EQUIPMENT TO BE REMOVED AND DISPOSED OFF THE SITE.
- 14 EXISTING PLAY EQUIPMENT TO BE SALVAGED AND DELIVERED TO THE OWNER FOR PARTS.
- 15 EXISTING PLAY EQUIPMENT TO BE SALVAGED OR DELIVERED TO OWNER FOR REFURBISHING AND THEN REINSTALLATION ON THIS SITE.
- 16 EXISTING FENCE, GATES AND FOOTINGS TO BE REMOVED AND DISPOSED OFF THE SITE.
- 17 EXISTING POWER POLE AND OVERHEAD ELECTRIC TO REMAIN AND BE PROTECTED.
- 18 EXISTING SIGN TO REMAIN AND BE PROTECTED.
- 19 SALVAGE AND DELIVER SHADE STRUCTURE TO SCHOOL DISTRICT FOR REINSTALLATION ON THE SITE.
- 20 REMOVE EXISTING BACKFLOW PREVENTER AND ALL WATER LINE FROM RIGHT OF WAY. CAP WATER LINE AT PROPERTY LINE. SEE PUBLIC WATER LINE PLANS FOR WORK IN THE RIGHT OF WAY.
- 21 EXISTING DRYWELL TO REMAIN. PROTECT FROM DAMAGE.
- 22 EXISTING SEWER TAP SHALL BE CAPPED AT THE PROPERTY LINE AND ABANDONED IN PLACE.

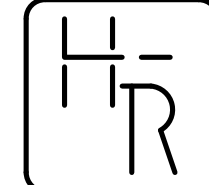
## TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

<p align="center"><b>IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL</b></p>			
DRAWING STATUS		SHEET	OF
<b>CONSTRUCTION SET</b>		<b>8</b>	<b>35</b>
DATE: <u>6/29/20</u>		<b>C-8</b>	







HESS — ROUNTREE, INC.  
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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**GENERAL DEMOLITION NOTES:**

- EXISTING STRUCTURES, MATERIALS, LANDSCAPING, ETC., THAT ARE TO REMAIN, WHICH ARE DAMAGED IN THE PERFORMANCE OF THE WORK, ARE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE IN KIND. THE ARCHITECT AND OWNER SHALL BE THE JUDGE OF ACCEPTABILITY OF REPAIR OR REPLACEMENT.
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- SAWCUT SIDEWALKS AND CONCRETE AT NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR.
- SAWCUT ASPHALTIC CONCRETE AT LIMITS OF DEMOLITION AS SHOWN ON PLANS OR AS DIRECTED BY THE CITY INSPECTOR.
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- ALL EXISTING TREES THAT ARE NOT CALLED OUT TO BE RELOCATED OR REMAIN IN PLACE SHALL BE REMOVED ALONG WITH THE ROOTS TO 2' BELOW GRADE.

**SPECIFIC DEMOLITION NOTES:**

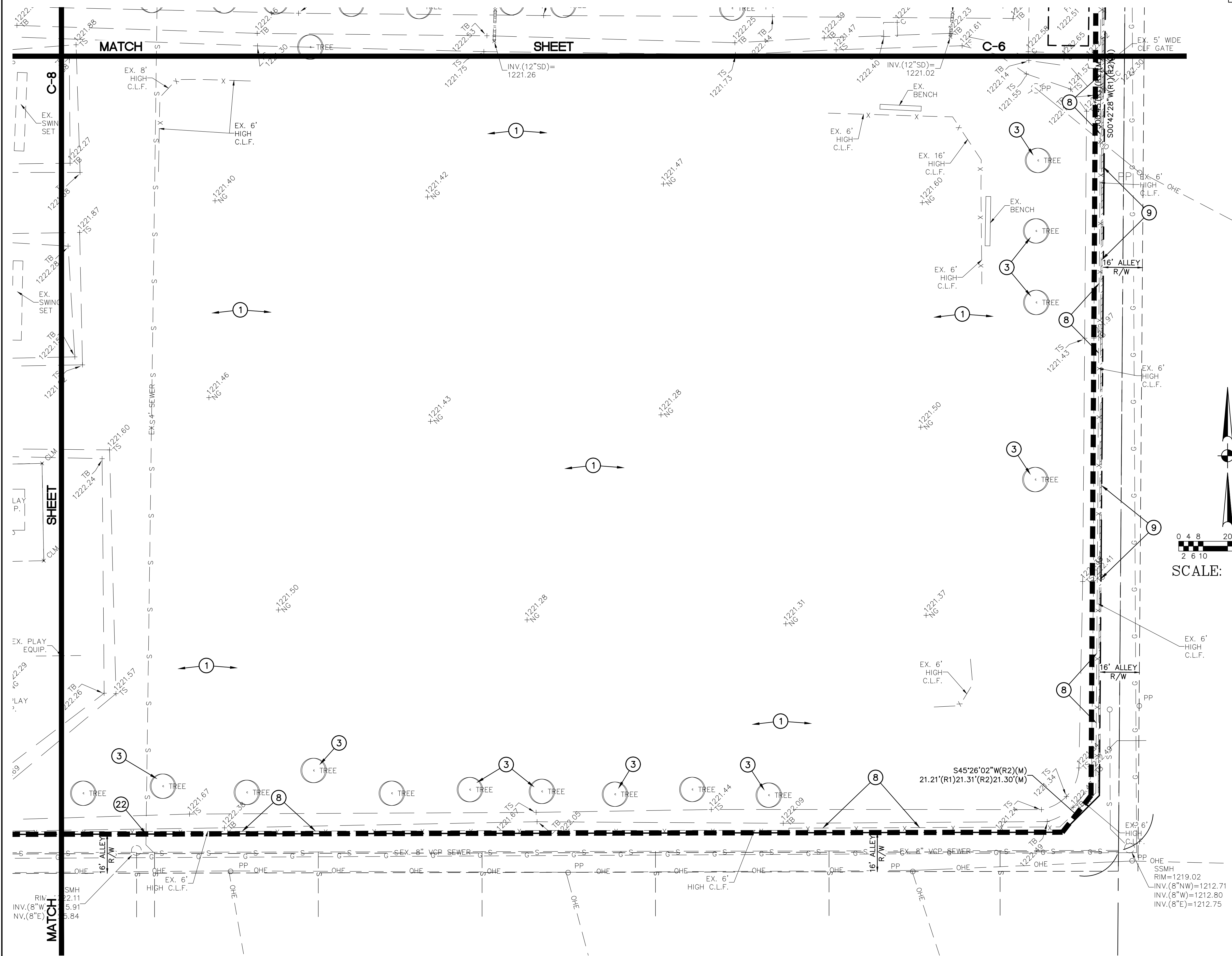
- WITHIN DEMOLITION AREA, REMOVE AND LEGALLY DISPOSE OF ALL BUILDINGS, CONCRETE, ASPHALT, A.B.C., CONCRETE SIDEWALKS, WALLS, CURBS, TREES AND ANY IMPROVEMENTS EXCEPT ITEMS NOTED TO REMAIN AND BE PROTECTED OR TO BE REMOVED AND SALVAGED. ALL UTILITIES ARE TO BE ABANDONED IN PLACE IF THEY DO NOT CONFLICT WITH GRADING AND NEW UTILITIES. REMOVE AND CAP ALL OPENINGS IN CASE OF A CONFLICT.
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**TOPOGRAPHIC SURVEY AND DEMOLITION PLAN**

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
DATE: 6/29/20	9	35	C-9





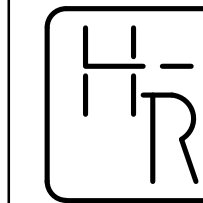
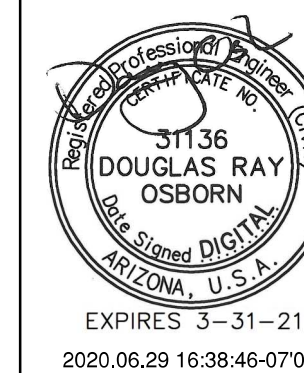
**NOTE:**

1. SEE SHEETS C-18 TO C-22 FOR STORM DRAIN PLANS

**\*\* ALL SECTIONS ARE ON SHEET C-3 \*\***

39. INSTALL TRASH ENCLOSURE. SEE SHEETS SP102 AND SP105 ON THE ARCHITECTURAL PLANS FOR DETAILS.
40. INSTALL SIDEWALK RAMP (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2235-1).
41. INSTALL SIDEWALK RAMP (MAG STANDARD DETAIL NO. 236-1, MODIFIED FOR R=10')

37. INSTALL PAVEMENT MARKER FOR FIRE HYDRANT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2363).
38. CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2250).



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9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**GRADING AND DRAINAGE**

**CONSTRUCTION NOTES:**

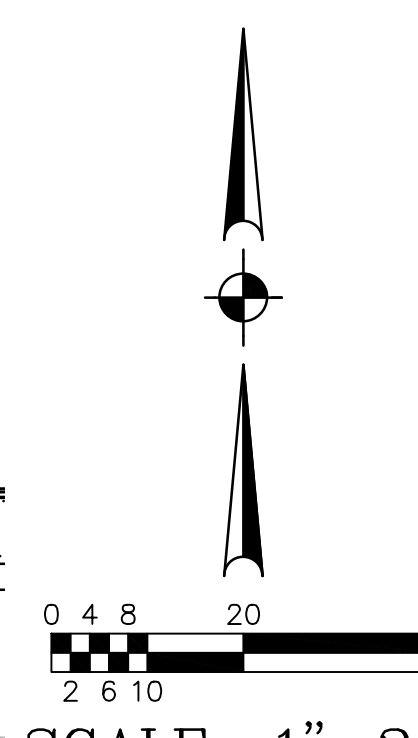
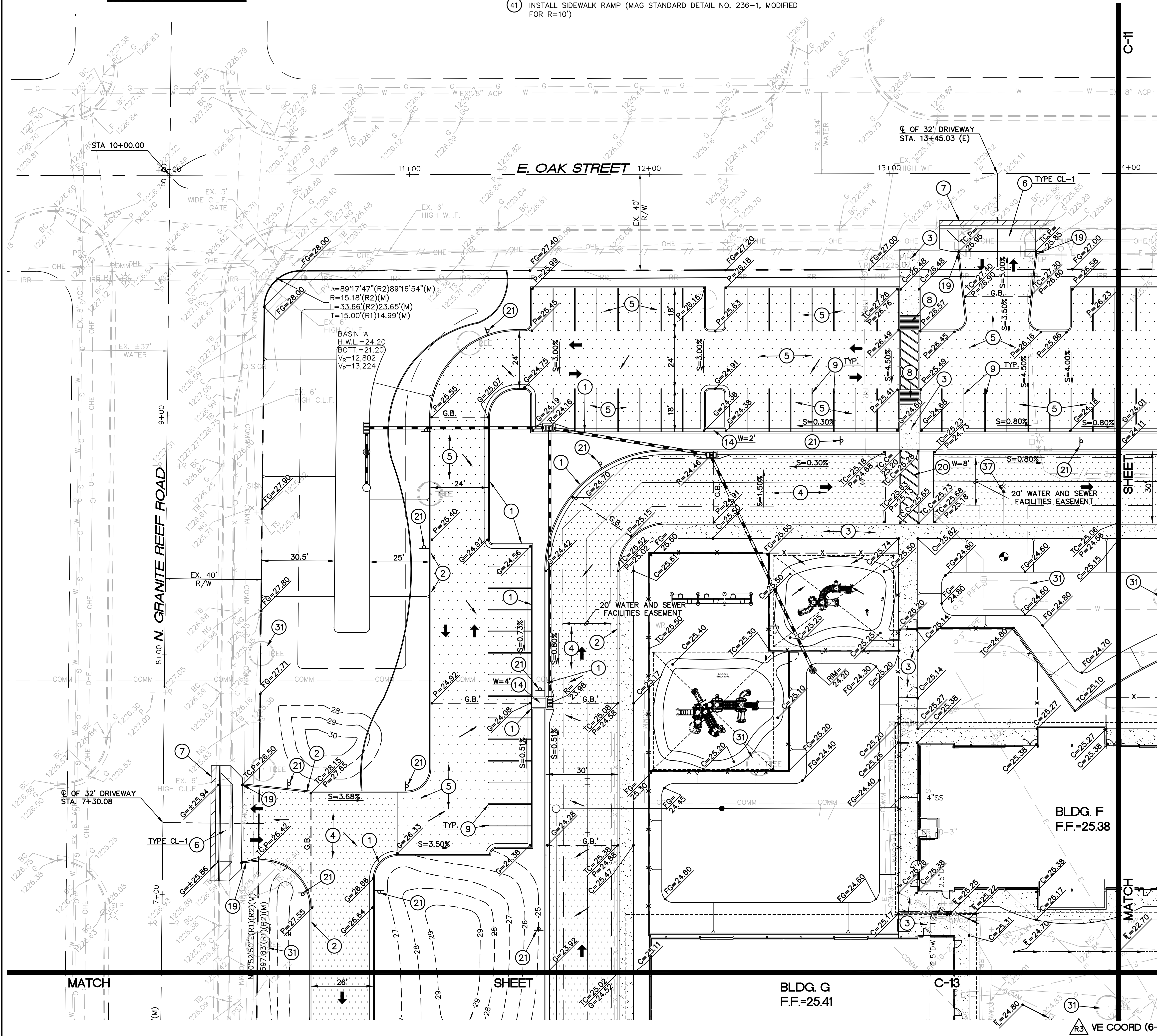
1. INSTALL CONCRETE VERTICAL CURB AND GUTTER (MAG STANDARD DETAIL NO. 220-1, TYPE A).
2. INSTALL CONCRETE SINGLE CURB (MAG STANDARD DETAIL NO. 222, TYPE 'A').
3. INSTALL CONCRETE SIDEWALK (MAG STANDARD DETAIL NO. 230). SEE ARCHITECTURAL DRAWINGS FOR SCORING AND FINISH.
4. INSTALL A.C. PAVEMENT (3" A.C. (TYPE C-3/4") OVER 8" A.B.C.) IN FIRE LANES AND BUS DROPS.
5. INSTALL A.C. PAVEMENT (2.5" A.C. (TYPE C-3/4") OVER 7" A.B.C.) IN PARKING AREAS.
6. CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2256). SIZE AS INDICATED. TYPE PER PLAN.
7. SAWCUT, REMOVE AND REPLACE 2' MINIMUM OF EXISTING A.C. PAVEMENT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2200 AND 2201 OR IN KIND, WHICHEVER IS GREATER).
8. INSTALL CONCRETE SIDEWALK RAMP TYPE 'A' (SEE DETAIL ON SHEET C-2).
9. PAINT STRIPE PARKING LOT OF THE ALIGNMENTS INDICATED, INCLUDING ALL DIRECTIONAL ARROWS, HANDICAP SYMBOLS, CROSSWALKS, PARKING STALLS, ETC.).
10. INSTALL HANDICAP PARKING SIGN PER CITY OF SCOTTSDALE. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B' (TOP OF SIGN SHALL BE 6" ABOVE GRADE). TYPICAL AT EACH HANDICAP SPACE.
11. INSTALL ACCESSIBLE RAMP AND STAIRS (SEE LANDSCAPE AND STRUCTURAL DRAWINGS FOR DETAILS).
12. INSTALL 2" OF NEW STABILIZED DECOMPOSED GRANITE. DECOMPOSED GRANITE TO BE 1" BELOW TOP OF CURB.
13. INSTALL CONCRETE VALLEY GUTTER AND APRON (MAG STANDARD DETAIL NO. 240). WIDTH PER PLAN.
14. INSTALL DRAIN THROUGH LANDSCAPE AREA (SEE DETAIL ON SHEET C-2 WIDTH PER PLAN).
15. INSTALL 8" THICK MAG AA 4000 P.S.I. CONCRETE OVER 8" COMPACTED SUBGRADE.
16. INSTALL CONCRETE ROLL CURB (MAG STANDARD DETAIL NO. 220-1, TYPE D).
17. INSTALL CONCRETE PLAYCOURT (SEE DETAIL ON SHEET C-23).
18. INSTALL SOCCER GOAL (SPORTS EDGE SE700 WITH REAR WHEEL KIT OR APPROVED EQUAL).
19. CONSTRUCT CURB TERMINATION (MAG STANDARD DETAIL NO. 222).
20. CONSTRUCT CONCRETE SPEED TABLE (SEE DETAIL ON SHEET C-2).
21. INSTALL "FIRE LANE - NO PARKING" SIGN PER SCOTTSDALE STANDARD DETAIL NO. 2365. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'C'.
22. INSTALL CONCRETE SIDEWALK RAMP TYPE B (SEE DETAIL ON SHEET C-2).
23. INSTALL CONCRETE SPILLWAY (SEE DETAIL ON SHEET C-3).
24. INSTALL PRECAST SAFETY CURB (MAG S.D. 150, TYPE B-3).
25. INSTALL 6" WIDE SIDEWALK SCUPPER (MAG STANDARD DETAIL NO. 206-1 AND 206-2).
26. INSTALL "DO NOT ENTER SIGN" (MUTCD R5-1, WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'C').
27. REMOVE EXISTING BUS DROP OR DRIVEWAY (SEE DEMOLITION PLANS).
28. TRANSITION TOP OF CURB TO BE FLUSH AT BACK OF DRIVE AND 6" ABOVE THE GUTTER AT 15' FROM BACK OF DRIVEWAY.
29. INSTALL 8" SCUPPER (MAG S.D. 206-1 AND 206-2).
30. INSTALL GROUTED RIP-RAP SWALE.
31. PROTECT EXISTING TREE. MODIFY GRADING AT TREE AS NEEDED TO PROTECT TREE ROOTS.
32. PAVERS. SEE SHEET SR401/16 ON ARCHITECTURAL PLANS FOR DETAILS.
33. MATCH EXISTING GRADE.
34. INSTALL 6"x6" CONCRETE LANDSCAPE HEADER. TOP OF CURB SHALL BE 1" ABOVE FINISH GRADE.
35. REGRADE TOP OF BANK AT FENCE LINE WITHIN THE LIMITS INDICATED PER SECTION B-B ON SHEET C-3.
36. BRIDGE. SEE SHEET SR401/301 ON ARCHITECTURAL PLANS.

**GRADING AND DRAINAGE PLANS**

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
DATE: 6/29/20	10	35	C-10

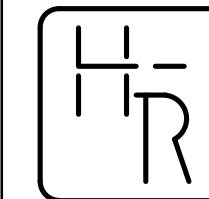
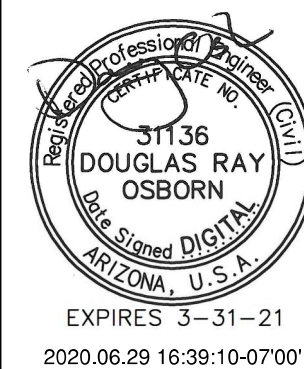




\*\* ALL SECTIONS ARE ON SHEET C-3 \*\*

**NOTE:**

1. SEE SHEETS C-18 TO C-22 FOR STORM DRAIN PLANS



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CONSULTING ENGINEERS & LAND SURVEYORS  
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DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**GRADING AND DRAINAGE**

**CONSTRUCTION NOTES:**

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3. INSTALL CONCRETE SIDEWALK (MAG STANDARD DETAIL NO. 230). SEE ARCHITECTURAL DRAWINGS FOR SCORING AND FINISH.
4. INSTALL A.C. PAVEMENT (3" A.C. (TYPE C-3/4") OVER 8" A.B.C.) IN FIRE LANES AND BUS DROPS.
5. INSTALL A.C. PAVEMENT (2.5" A.C. (TYPE C-3/4") OVER 7" A.B.C.) IN PARKING AREAS.
6. CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2256). SIZE AS INDICATED. TYPE PER PLAN.
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34. INSTALL 6"x6" CONCRETE LANDSCAPE HEADER. TOP OF CURB SHALL BE 1" ABOVE FINISH GRADE.
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36. BRIDGE. SEE SHEET SR401/301 ON ARCHITECTURAL PLANS.

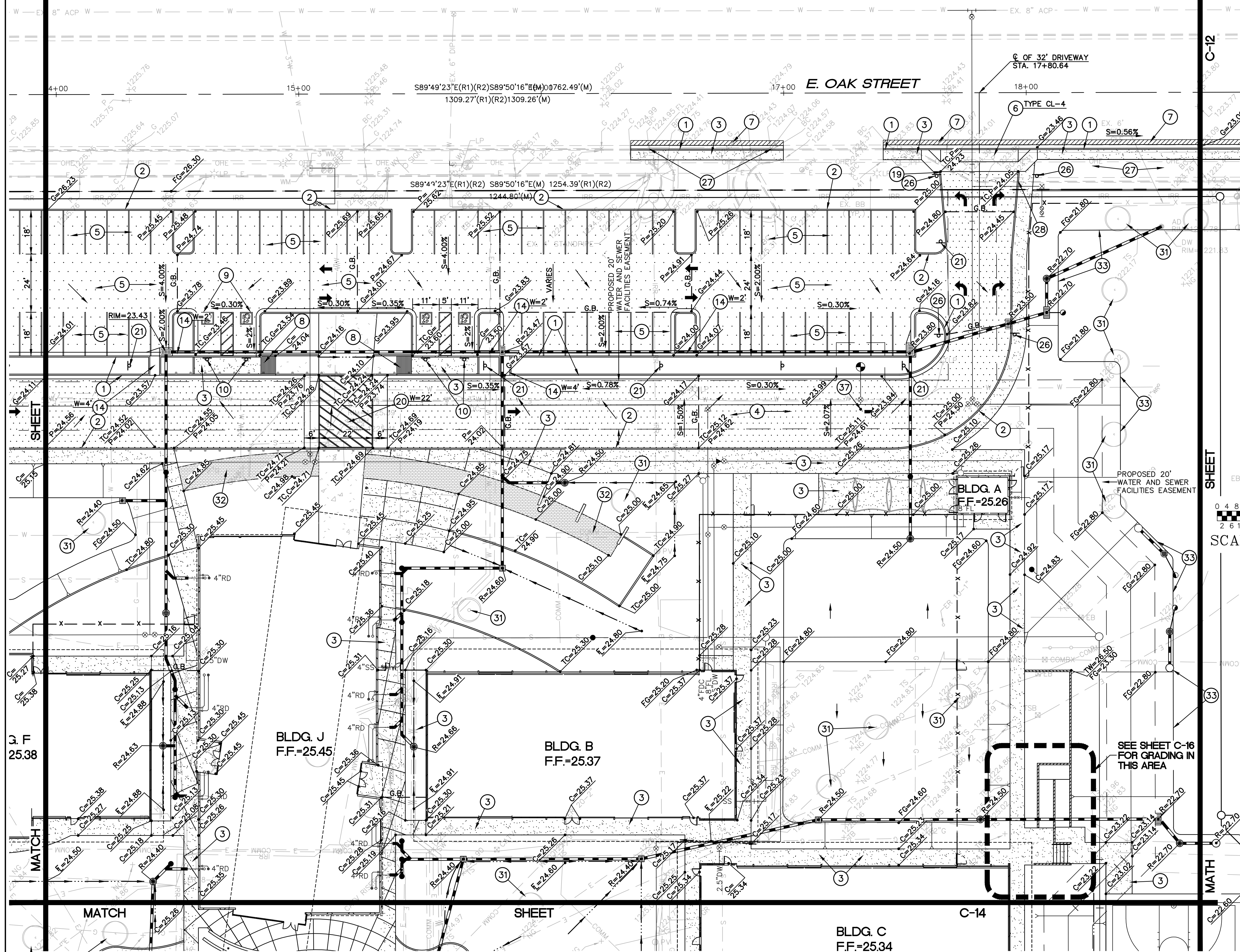
**GRADING AND DRAINAGE PLANS**

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF
CONSTRUCTION SET	11	35
DATE: 6/29/20		

**C-11**



41. INSTALL SIDEWALK RAMP (MAG STANDARD DETAIL NO. 236-1, MODIFIED FOR R=10')

39. INSTALL TRASH ENCLOSURE. SEE SHEETS SP102 AND SP105 ON THE ARCHITECTURAL PLANS FOR DETAILS.

40. INSTALL SIDEWALK RAMP (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2235-1)

37. INSTALL PAVEMENT MARKER FOR FIRE HYDRANT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2363)

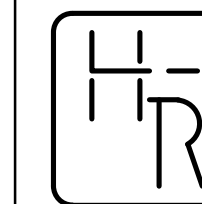
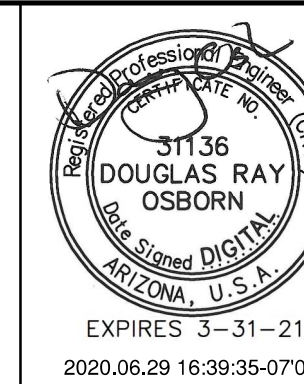
38. CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2250).

VE COORD (6-18-20)





- 37) INSTALL PAVEMENT MARKER FOR FIRE HYDRANT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2363)
- 38) CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2250).
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- 41) INSTALL SIDEWALK RAMP (MAG STANDARD DETAIL NO. 236-1, MODIFIED FOR R=10')



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PHOENIX, ARIZONA 85044 (480)496-0244

DES. <b>DRO</b>	DRN. <b>JCW</b>	CKD. <b>DRO</b>	JOB NO. <b>1704-13</b>
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## CONSTRUCTION NOTES

- (1) INSTALL CONCRETE VERTICAL CURB AND GUTTER (MAG STANDARD DETAIL NO. 220-1, TYPE A).
- (2) INSTALL CONCRETE SINGLE CURB (MAG STANDARD DETAIL NO. 222, TYPE 'A').
- (3) INSTALL CONCRETE SIDEWALK (MAG STANDARD DETAIL NO. 230). SEE ARCHITECTURAL DRAWINGS FOR SCORING AND FINISH.
- (4) INSTALL A.C. PAVEMENT (3" A.C. (TYPE C-3/4") OVER 8" A.B.C.) IN FIRE LANES AND BUS DROPS.
- (5) INSTALL A.C. PAVEMENT (2.5" A.C. (TYPE C-3/4") OVER 7" A.B.C.) IN PARKING AREAS.
- (6) CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2256). SIZE AS INDICATED. TYPE PER PLAN.
- (7) SAWCUT, REMOVE AND REPLACE 2' MINIMUM OF EXISTING A.C. PAVEMENT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2200 AND 2201 OR IN KIND, WHICHEVER IS GREATER)
- (8) INSTALL CONCRETE SIDEWALK RAMP TYPE 'A' (SEE DETAIL ON SHEET C-2).
- (9) PAINT STRIPE PARKING LOT OF THE ALIGNMENTS INDICATED, INCLUDING ALL DIRECTIONAL ARROWS, HANDICAP SYMBOLS, CROSSWALKS, PARKING STALLS, ETC.).
- (10) INSTALL HANDICAP PARKING SIGN PER CITY OF SCOTTSDALE. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B' (TOP OF SIGN SHALL BE 6" ABOVE GRADE). TYPICAL AT EACH HANDICAP SPACE.
- (11) INSTALL ACCESSIBLE RAMP AND STAIRS (SEE LANDSCAPE AND STRUCTURAL DRAWINGS FOR DETAILS).
- (12) INSTALL 2" OF NEW STABILIZED DECOMPOSED GRANITE. DECOMPOSED GRANITE TO BE 1" BELOW TOP OF CURB.
- (13) INSTALL CONCRETE VALLEY GUTTER AND APRON (MAG STANDARD DETAIL NO. 240). WIDTH PER PLAN.
- (14) INSTALL DRAIN THROUGH LANDSCAPE AREA (SEE DETAIL ON SHEET C-2 WIDTH PER PLAN).
- (15) INSTALL 8" THICK MAG AA 4000 P.S.I. CONCRETE OVER 8" COMPACTED SUBGRADE.
- (16) INSTALL CONCRETE ROLL CURB (MAG STANDARD DETAIL NO. 220-1, TYPE D).
- (17) INSTALL CONCRETE PLAYCOURT (SEE DETAIL ON SHEET C-23).
- (18) INSTALL SOCCER GOAL (SPORTS EDGE SE700 WITH REAR WHEEL KIT OR APPROVED EQUAL).
- (19) CONSTRUCT CURB TERMINATION (MAG STANDARD DETAIL NO. 222).
- (20) CONSTRUCT CONCRETE SPEED TABLE (SEE DETAIL ON SHEET C-2).
- (21) INSTALL "FIRE LANE - NO PARKING" SIGN PER SCOTTSDALE STANDARD DETAIL NO. 2365. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'C'.
- (22) INSTALL CONCRETE SIDEWALK RAMP TYPE B (SEE DETAIL ON SHEET C-2).
- (23) INSTALL CONCRETE SPILLWAY (SEE DETAIL ON SHEET C-3).
- (24) INSTALL PRECAST SAFETY CURB (MAG S.D. 150, TYPE B-3).
- (25) INSTALL 6" WIDE SIDEWALK SCUPPER (MAG STANDARD DETAIL NO. 206-1 AND 206-2).
- (26) INSTALL "DO NOT ENTER SIGN" (MUTCD R5-1, WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'C').
- (27) REMOVE EXISTING BUS DROP OR DRIVEWAY (SEE DEMOLITION PLANS).
- (28) TRANSITION TOP OF CURB TO BE FLUSH AT BACK OF DRIVE AND 6" ABOVE THE GUTTER AT 15' FROM BACK OF DRIVEWAY.
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- (30) INSTALL GROUTED RIP-RAP SWALE.
- (31) PROTECT EXISTING TREE. MODIFY GRADING AT TREE AS NEEDED TO PROTECT TREE ROOTS.
- (32) PAVERS. SEE SHEET SR401/16 ON ARCHITECTURAL PLANS FOR DETAILS.
- (33) MATCH EXISTING GRADE.
- (34) INSTALL 6"x6" CONCRETE LANDSCAPE HEADER. TOP OF CURB SHALL BE 1" ABOVE FINISH GRADE.
- (35) REGRADE TOP OF BANK AT FENCE LINE WITHIN THE LIMITS INDICATED PER SECTION B-B ON SHEET C-3.
- (36) BRIDGE. SEE SHEET SR401/301 ON ARCHITECTURAL PLANS.

SCOTTSDALE UNIFIED SCHOOL DISTRICT #48

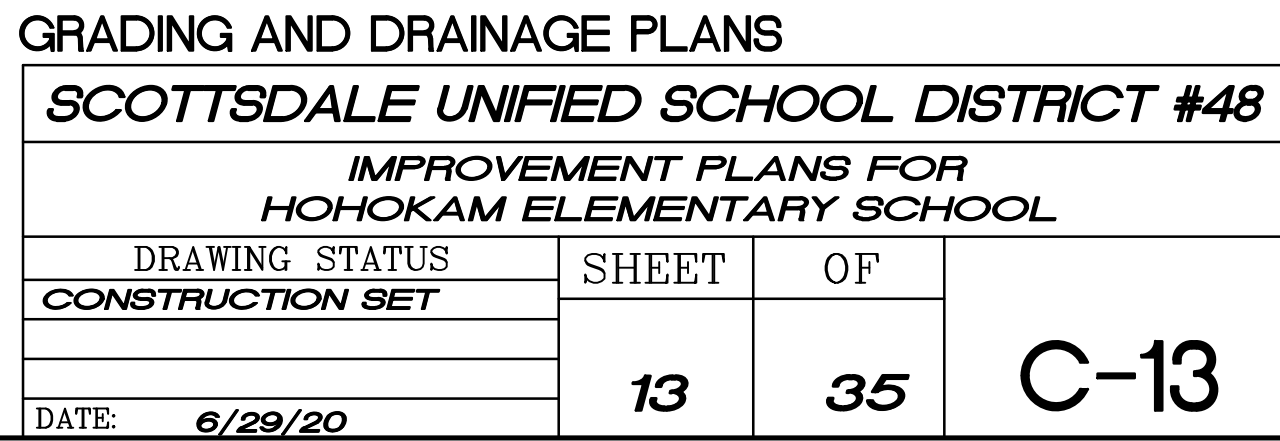
IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-12
CONSTRUCTION SET			
DATE: 6/29/20	12	35	

CONTRACTOR TO GRADE THE NORTHEAST CORNER  
OF BASIN WHERE THE EXISTING BUILDING WAS  
REMOVED TO AN ELEVATION OF 21.40



SCALE: 1"=20'



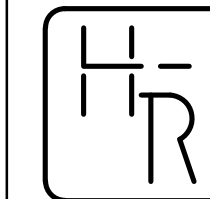


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DES. <i>DRO</i>	DRN. <i>JCW</i>	CKD. <i>DRO</i>	JOB NO. <i>1704-13</i>
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**GRADING AND DRAINAGE**  
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## GRADING AND DRAINAGE PLANS

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL		
DRAWING STATUS	SHEET	OF
CONSTRUCTION SET		
DATE: 6/29/20	14	35

C-14

SEE SHEET C-16  
— FOR GRADING IN  
THIS AREA

**NOTE:**

1. SEE SHEETS C-18 TO C-22  
FOR STORM DRAIN PLANS

RFI - 46 - Unforeseen Drywell Conflict

39 INSTALL TRASH ENCLOSURE. SEE SHEETS SP102 AND SP105 ON THE ARCHITECTURAL PLANS FOR DETAILS.

40 INSTALL SIDEWALK RAMP (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2235-1)

41 INSTALL SIDEWALK RAMP (MAG STANDARD DETAIL NO. 236-1, MODIFIED FOR R=10')

(36) BRIDGE. SEE SHEET SR401/301 ON ARCHITECTURAL PLANS.

37 INSTALL PAVEMENT MARKER FOR FIRE HYDRANT (CITY OF SCOTTSDALE  
STANDARD DETAIL NO. 2363)

38) CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2250).

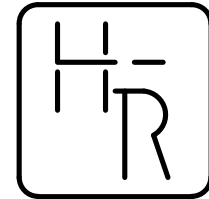
△ R6 ASI 005 SRP  
REVISIONS (07-24-20)

**△<sub>R3</sub> VE COORD (6-18-20)**



0 4 8 20  
2 6 10 40  
SCALE: 1"=20'





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## GRADING AND DRAINAGE

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### FENCING CONSTRUCTION NOTES:

- (1) INSTALL 24-FOOT HIGH CHAIN LINK FENCE WITH PLASTIC BASEBOARD (SEE DETAIL ON SHEET C-2). INSTALL 10" WIDE BY 8" DEEP CONCRETE CURB BENEATH FENCE. TOP OF CURB TO BE 1" ABOVE FINISHED GRADE.
- (2) INSTALL 6-FOOT HIGH CHAIN LINK FENCE WITH 6" WIDE BY 8" DEEP CONCRETE CURB BENEATH FENCE. TOP OF CURB TO BE 1" ABOVE FINISHED GRADE.
- (3) INSTALL HOME PLATE, SCHUTT HOLLYWOOD BURY ALL HOME PLATE (#12807100) OR ENGINEER APPROVED EQUAL (SEE DETAIL ON SHEET C-2)
- (4) INSTALL BASE, SCHUTT BBPLS ORIGINAL JACK CORBETT HOLLYWOOD BASE W/ANCHORS. SCHUTT ANCHOR PLUG W/COLORED INDICATORS OR APPROVED EQUAL (SEE DETAIL ON SHEET C-2).
- (5) INSTALL SCHUTT 4-SIDED PROFESSIONAL PITCHING RUBBER (#12808500) OR ENGINEER APPROVED EQUAL.
- (6) INSTALL CHAIN LINK FENCE DUGOUT WITH CONCRETE FLOOR (SEE DETAIL ON SHEET C-2)

## GRADING AND DRAINAGE PLANS

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

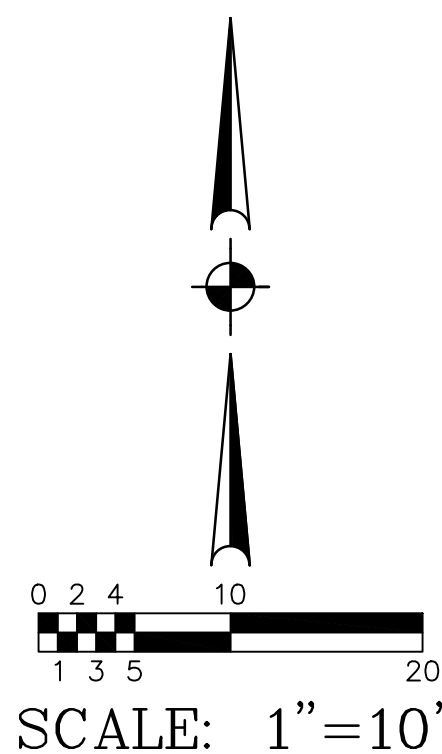
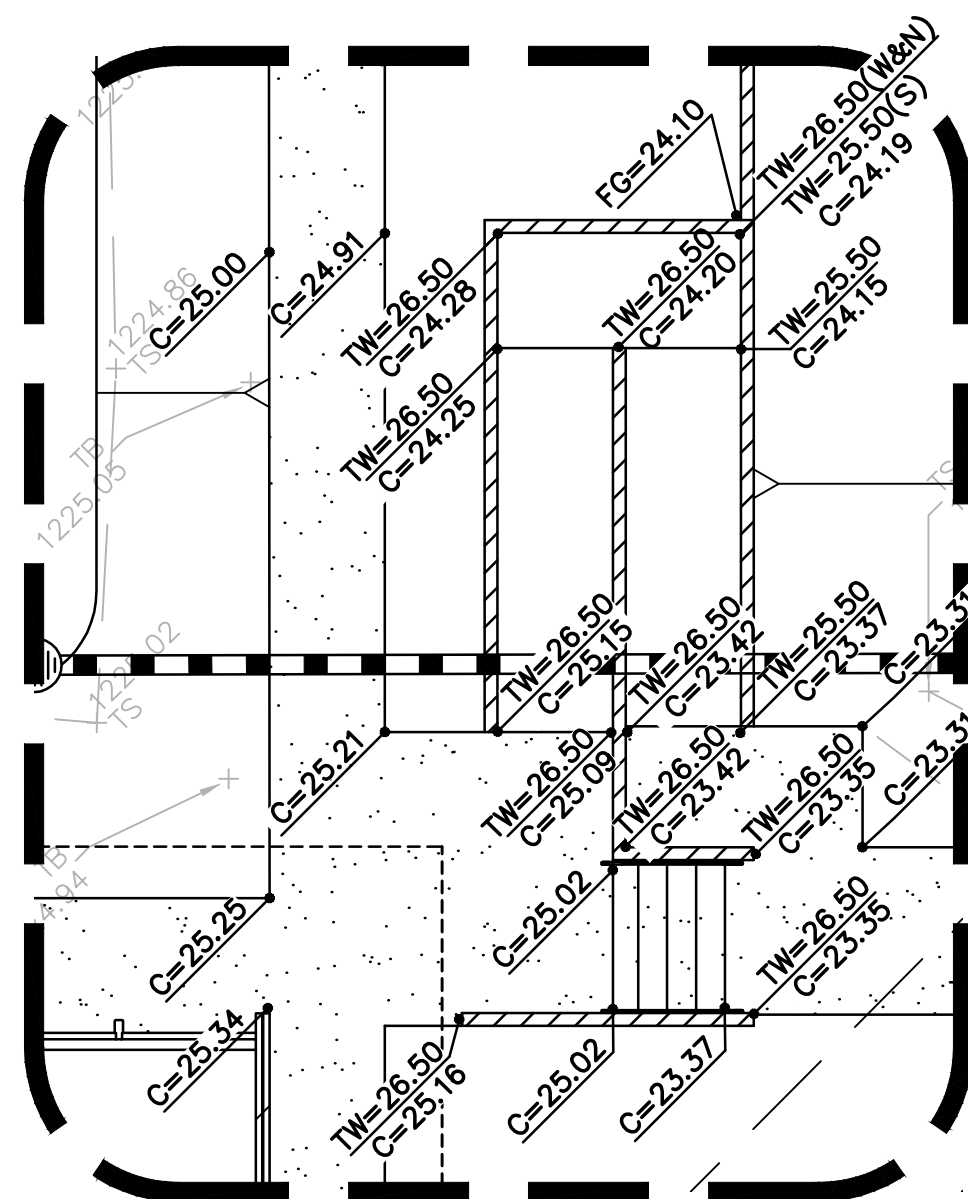
## **IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	C-15
CONSTRUCTION SET	15	35	
DATE: 6/29/20			



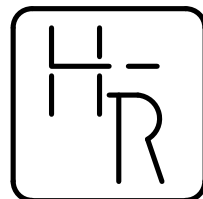
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SCALE: 1"=10'

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DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**GRADING AND DRAINAGE  
CONSTRUCTION NOTES:**

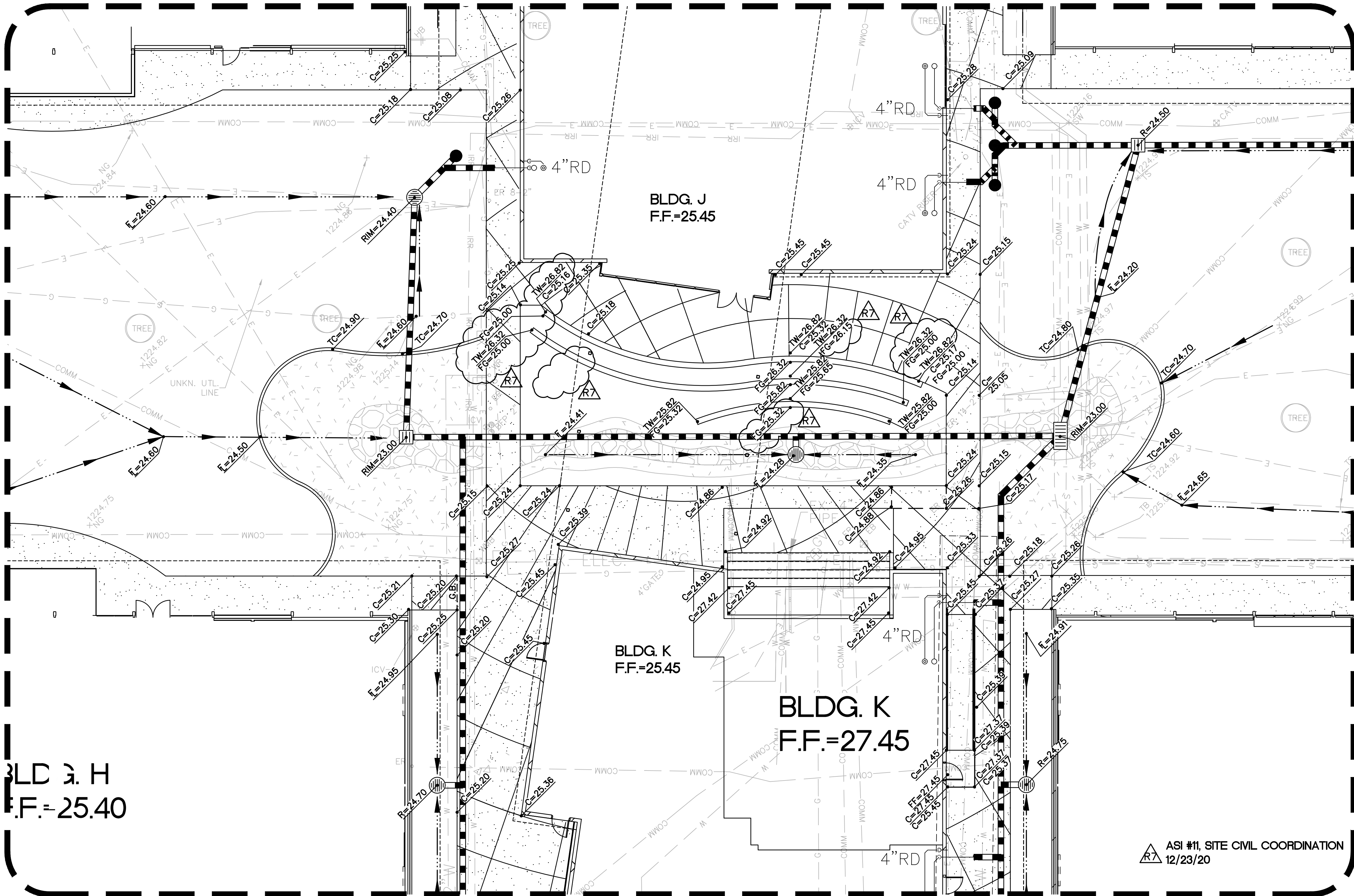
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**GRADING AND DRAINAGE PLANS**

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

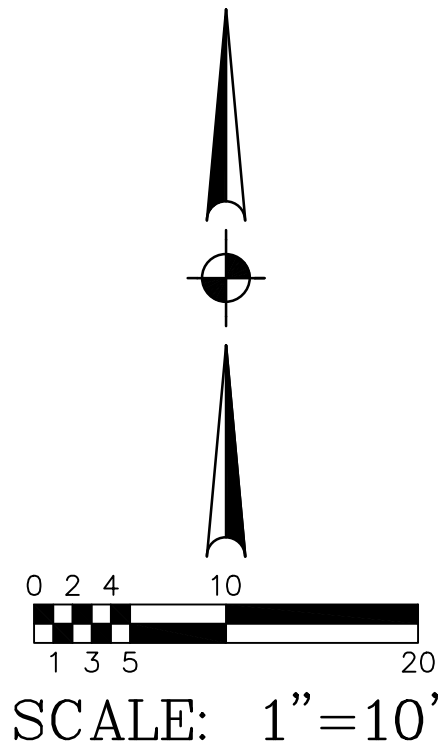
**IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
DATE: 6/29/20	16	35	C-16



BLDG. H  
F.F.=25.40

ASI #11, SITE CIVIL COORDINATION  
12/23/20



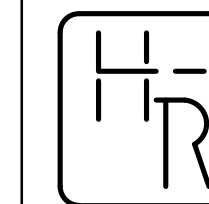
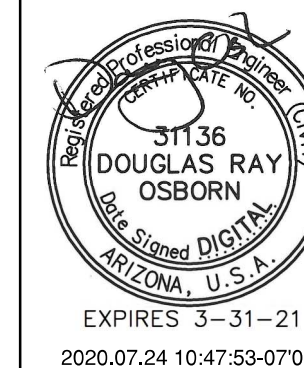
SCALE: 1"=10'











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9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**STORM DRAIN LINE CONSTRUCTION NOTES:**

1. INSTALL AREA DRAIN (SEE DETAIL ON SHEET C-2).
2. CONSTRUCT DUAL CHAMBER DRYWELL (SEE DETAIL ON SHEET C-2).
3. INSTALL 15" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
4. INSTALL CATCH BASIN (MAG STANDARD DETAIL NO. 537, SINGLE).
5. INSTALL STORM DRAIN CLEANOUT (SEE DETAIL ON SHEET C-2).
6. INSTALL CATCH BASIN (MAG STANDARD DETAIL NO. 537, DOUBLE).
7. INSTALL 12" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
8. INSTALL 18" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
9. CONNECT TO ROOF DRAIN WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING DRAWINGS FOR CONTINUATION.
10. INSTALL 8" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
11. INSTALL 24" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
12. INSTALL NEW OIL/GREASE INTERCEPTOR. CONNECT TO EXISTING DRYWELL. SEE OIL/GREASE INTERCEPTOR DETAIL IN THE DUAL CHAMBER DRYWELL DETAIL PROVIDED ON SHEET C-2.
13. REMOVE EXISTING GRATE AND INSTALL SOLID COVER OVER EXISTING DRYWELL. ADJUST DEBRIS SCREEN AND OVERFLOW PIPE TO BE 0.10 FEET BELOW THE INLET PIPE ELEVATION.
14. INSTALL 6" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
15. INSTALL 18" POLYWRAPPED DUCTILE IRON PIPE (PRESSURE CLASS 350). INSTALLATION TO INCLUDE A 20 LF SECTION CENTERED AT THE PUBLIC WATER LINE CROSSING. INSTALL WITH SPECIFIED JOINT PLACEMENT AND TYPE PER MAG SPECIFICATION SECTION 610.5.5 AND MAG STANDARD DETAIL NO'S. 404-1 AND 404-2.
16. INSTALL 4" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
17. INSTALL CONCRETE SPLASHPAD (SEE DETAIL ON SHEET C-3).
18. CATCH BASIN (MAG STANDARD DETAIL NO. 535) MODIFIED TO HAVE A 8" WIDE BY 8" DEEP CONCRETE COLLAR (MAG A CONCRETE).
19. INSTALL DUAL CHAMBER DRYWELL (SEE DETAIL ON SHEET C-2). DRYWELL TO BE INSTALLED ONLY AFTER OBTAINING THE PERCOLATION TEST RESULTS FROM THE SURFACE AS WELL AS THE PRIMARY DRYWELL IN THE BASIN.

**RFI - 87 Stormdrain tie-in to Drywell**

**FLOOD IRRIGATION LINE CONSTRUCTION NOTES:**

1. INSTALL 18" PLASTIC IRRIGATION PIPE (DR 41) WITH 2' MINIMUM COVER.
2. INSTALL PASTURE VALVE (SEE DETAIL ON SHEET C-2).
3. INSTALL IRRIGATION STANDPIPE (MAG STANDARD DETAIL NO. 503).
4. CONNECT TO EXISTING 18" IRRIGATION PIPE WITH CONCRETE COLLAR (MAG STANDARD DETAIL NO. 505).
5. INSTALL 18" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE.
6. INSTALL 12" PLASTIC IRRIGATION PIPE (DR 41) WITH 2' MINIMUM COVER.

**NOTE:**

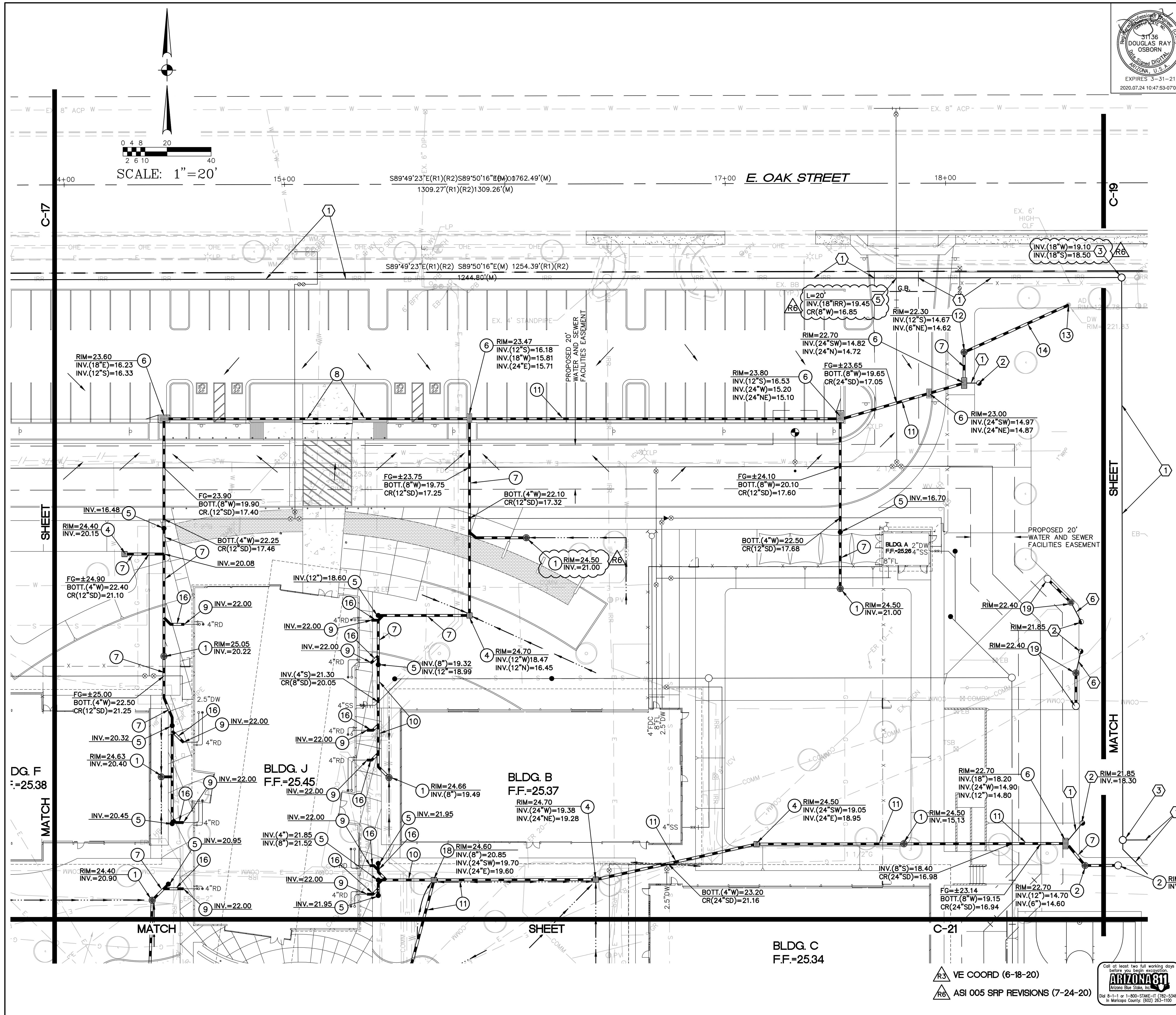
SEE DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR ON SHEET C-3 FOR TRACER WIRE AND A.B.C. BEDDING/BACKFILL REQUIREMENTS.

**STORM DRAIN AND FLOOD IRRIGATION PLAN**

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET	18	35	C-18
DATE:	6/29/20		

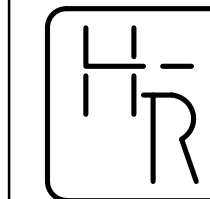
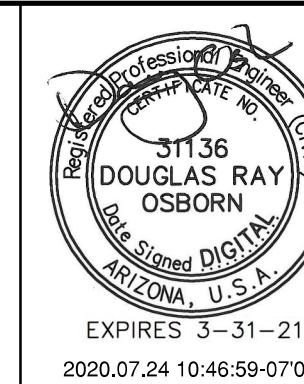


VE COORD (6-18-20)

ASI 005 SRP REVISIONS (7-24-20)







HESS - ROUNTREE, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

### STORM DRAIN LINE CONSTRUCTION NOTES:

1. INSTALL AREA DRAIN (SEE DETAIL ON SHEET C-2).
2. CONSTRUCT DUAL CHAMBER DRYWELL (SEE DETAIL ON SHEET C-2).
3. INSTALL 15" H.D.P.E DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
4. INSTALL CATCH BASIN (MAG STANDARD DETAIL NO. 537, SINGLE).
5. INSTALL STORM DRAIN CLEANOUT (SEE DETAIL ON SHEET C-2).
6. INSTALL CATCH BASIN (MAG STANDARD DETAIL NO. 537, DOUBLE).
7. INSTALL 12" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
8. INSTALL 18" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
9. CONNECT TO ROOF DRAIN WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING DRAWINGS FOR CONTINUATION.
10. INSTALL 8" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
11. INSTALL 24" H.D.P.E DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
12. INSTALL NEW OIL/GREASE INTERCEPTOR. CONNECT TO EXISTING DRYWELL. SEE OIL/GREASE INTERCEPTOR DETAIL IN THE DUAL CHAMBER DRYWELL DETAIL PROVIDED ON SHEET C-2
13. REMOVE EXISTING GRATE AND INSTALL SOLID COVER OVER EXISTING DRYWELL. ADJUST DEBRIS SCREEN AND OVERFLOW PIPE TO BE 0.10 FEET BELOW THE INLET PIPE ELEVATION
14. INSTALL 6" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
15. INSTALL 18" POLYWRAPPED DUCTILE IRON PIPE (PRESSURE CLASS 350). INSTALLATION TO INCLUDE A 20 LF SECTION CENTERED AT THE PUBLIC WATER LINE CROSSING. INSTALL WITH SPECIFIED JOINT PLACEMENT AND TYPE PER MAG SPECIFICATION SECTION 610.5.5 AND MAG STANDARD DETAIL NO'S. 404-1 AND 404-2.
16. INSTALL 4" H.D.P.E. DRAINAGE PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
17. INSTALL CONCRETE SPLASHPAD (SEE DETAIL ON SHEET C-3).
18. CATCH BASIN (MAG STANDARD DETAIL NO. 535) MODIFIED TO HAVE A 8" WIDE BY 8" DEEP CONCRETE COLLAR (MAG A CONCRETE).
19. INSTALL DUAL CHAMBER DRYWELL (SEE DETAIL ON SHEET C-2). DRYWELL TO BE INSTALLED ONLY AFTER OBTAINING THE PERCOLATION TEST RESULTS FROM THE SURFACE AS WELL AS THE PRIMARY DRYWELL IN THE BASIN.

### FLOOD IRRIGATION LINE CONSTRUCTION NOTES:

1. INSTALL 18" PLASTIC IRRIGATION PIPE (DR 41) WITH 2' MINIMUM COVER.
2. INSTALL PASTURE VALVE (SEE DETAIL ON SHEET C-2)
3. INSTALL IRRIGATION STANDPIPE (MAG STANDARD DETAIL NO. 503).
4. CONNECT TO EXISTING 18" IRRIGATION PIPE WITH CONCRETE COLLAR (MAG STANDARD DETAIL NO. 505).
5. INSTALL 18" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2- FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE.
6. INSTALL 12" PLASTIC IRRIGATION PIPE (DR 41) WITH 2' MINIMUM COVER.

**RFI-86 Standpipe Install Detail**

### NOTE:

SEE DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR ON SHEET C-3 FOR TRACER WIRE AND A.B.C. BEDDING/BACKFILL REQUIREMENTS.

### STORM DRAIN AND FLOOD IRRIGATION PLAN

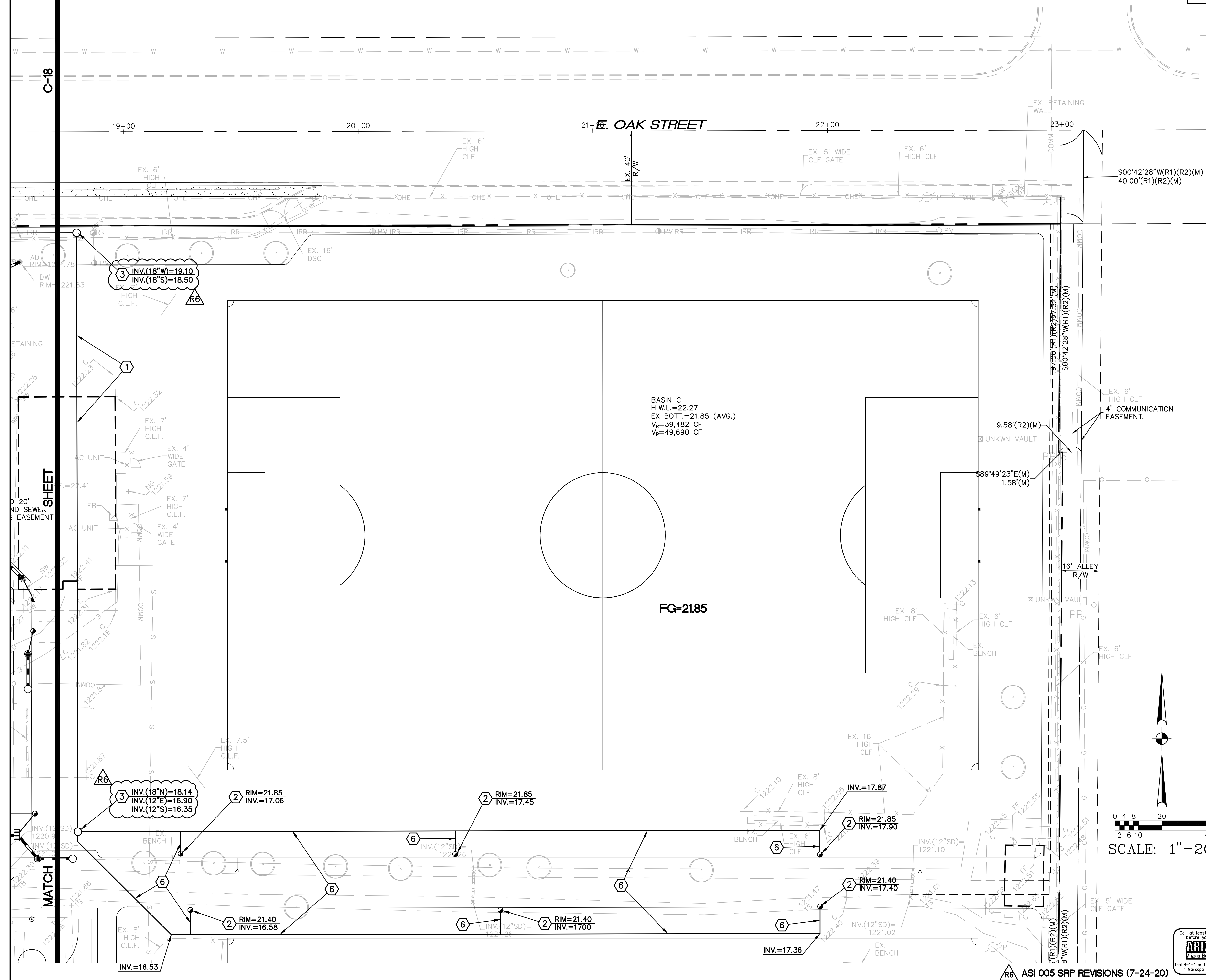
**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL**

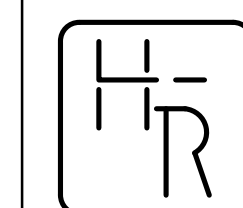
DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
DATE: 6/29/20	19	35	C-19



ASI 005 SRP REVISIONS (7-24-20)







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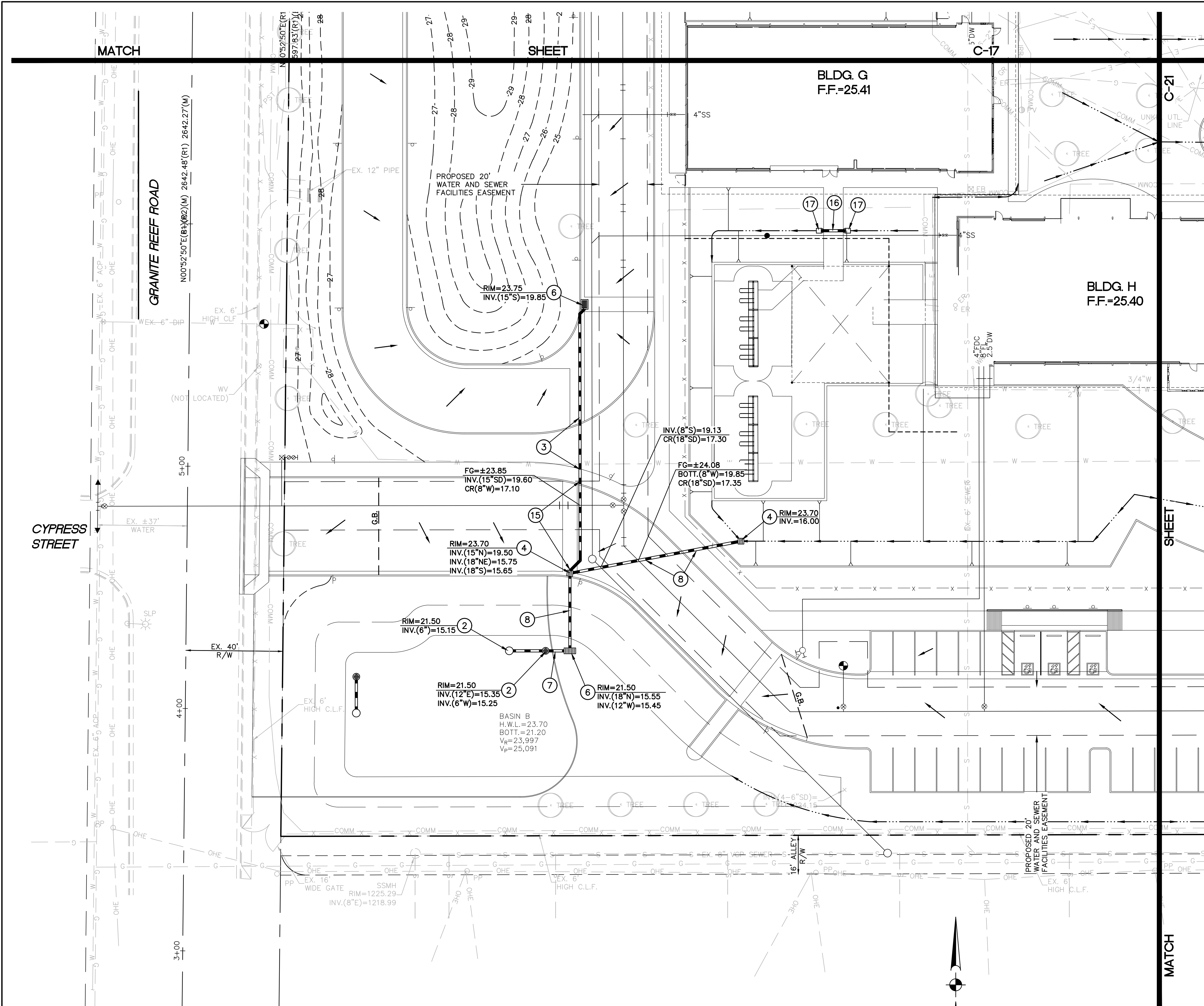
DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**STORM DRAIN LINE CONSTRUCTION NOTES:**

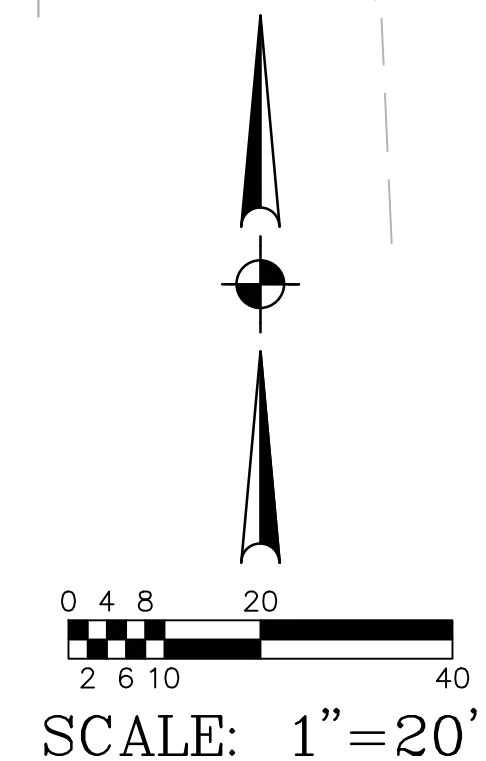
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**FLOOD IRRIGATION LINE CONSTRUCTION NOTES:**

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**NOTE:**  
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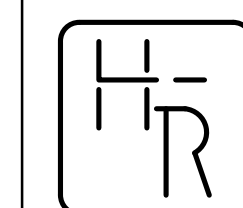
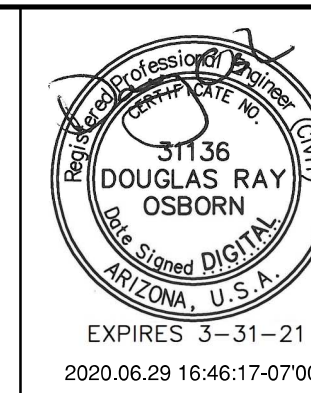


VE COORD (6-18-20)



STORM DRAIN AND FLOOD IRRIGATION PLAN			
SCOTTSDALE UNIFIED SCHOOL DISTRICT #48			
IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-20
CONSTRUCTION SET			
DATE: 6/29/20	20	35	





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DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

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5. INSTALL 18" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE.
6. INSTALL 12" PLASTIC IRRIGATION PIPE (DR 41) WITH 2' MINIMUM COVER.

**NOTE:**

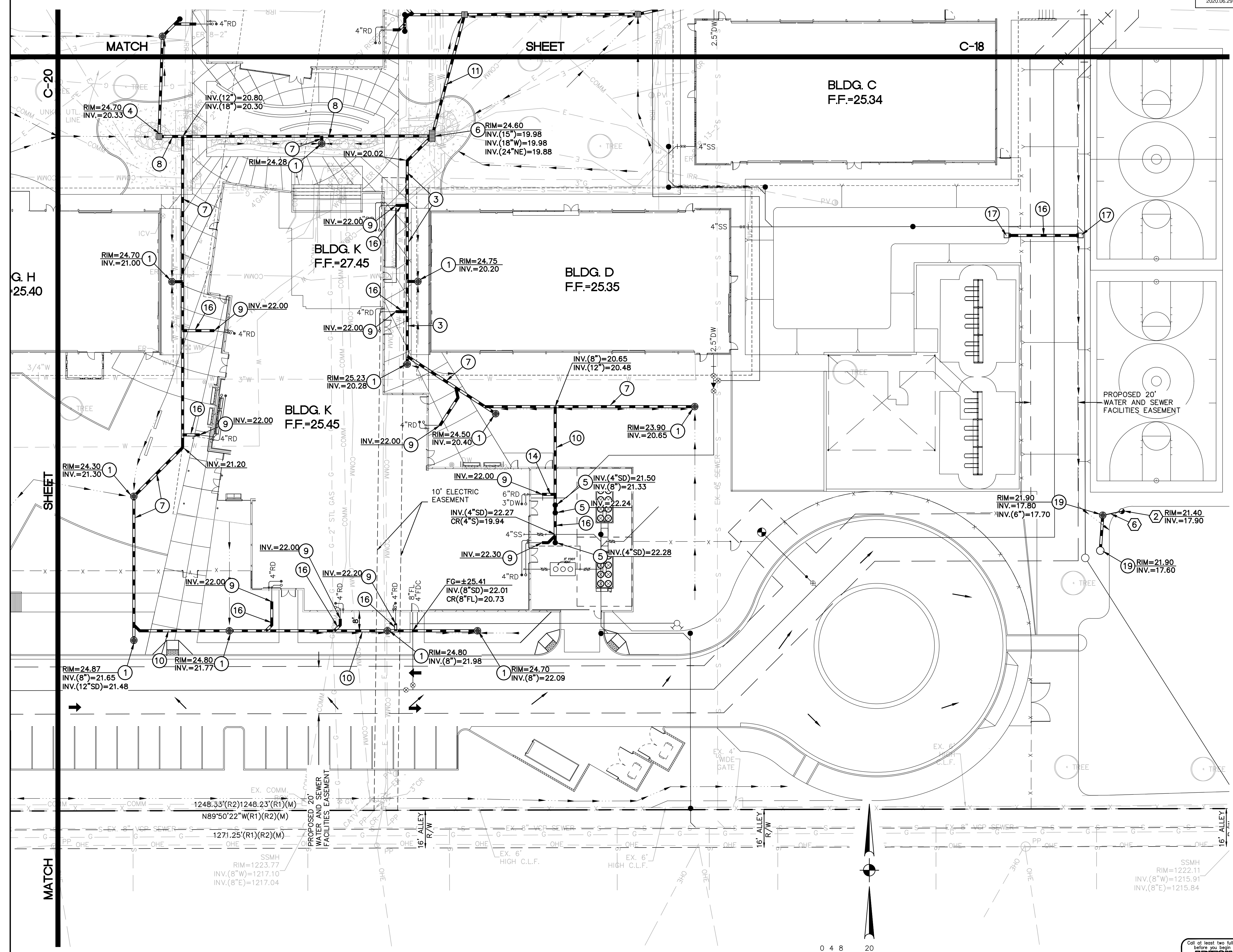
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**STORM DRAIN AND FLOOD IRRIGATION PLAN**

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
	21	35	C-21
DATE:	6/29/20		



0 4 8 20  
2 6 10 40  
SCALE: 1"=20'

VE COORD (6-18-20)



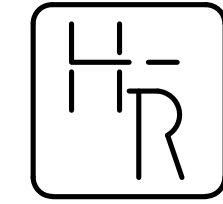
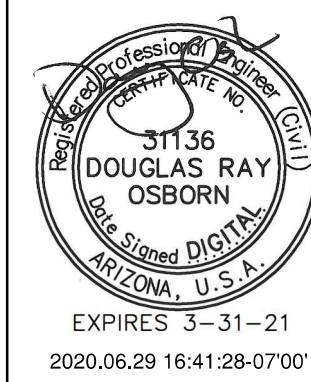




1. ALL POSTS, SLEEVES AND FOOTINGS FOR SAME ARE TO BE INSTALLED ONLY AFTER CONCRETE COURTS HAVE CURED A MINIMUM OF TWO (2) WEEKS.
2. ALL PAINTED LINES SHALL BE TWO (2) INCHES IN WIDTH UNLESS OTHERWISE NOTED.
3. ALL BASKETBALL COURT LINES SHALL BE WHITE IN COLOR.
4. ALL VOLLEYBALL COURT LINES SHALL BE YELLOW IN COLOR.
5. ALL STRIPES FOR LARGE CIRCLE (16' RADIUS) SHALL BE RED IN COLOR.
6. VOLLEYBALL NET IS NON-STANDARD SIZE AND WILL NEED TO BE MODIFIED TO MATCH DIMENSIONS INDICATED OR SPECIFIED.
7. SUBGRADE BELOW ALL FOOTINGS (BASKETBALL AND VOLLEYBALL) SHALL BE COMPACTED TO 95% OF MAXIMUM ASTM D698 DENSITY.
8. SINGLE BASKETBALL BACKSTOPS AT END OF EACH COURT SHALL BE PATTERSON-WILLIAMS SINGLE POST HEAVY DUTY BASKETBALL BACKSTOP (MODEL NO. 1525, 6' OFFSET) WITH HEAVY DUTY CAST ALUMINUM FAN (MODEL NO. 22) AND DOUBLE RING GOAL WITH NYLON NET (MODEL NO. 39) OR APPROVED EQUIVALENT. BASKETBALL BACKSTOPS ON EXTERIOR SIDES SHALL BE PATTERSON-WILLIAMS SINGLE POST HEAVY DUTY BASKETBALL BACKSTOP (MODEL NO. 1523, 4' OFFSET) WITH HEAVY DUTY CAST ALUMINUM FAN (MODEL NO. 22) AND DOUBLE RING GOAL WITH NYLON NET (MODEL NO. 39) OR APPROVED EQUAL.

CRACKS IN CONCRETE COURTS SHALL OCCUR ONLY AT CONTROL JOINT LOCATIONS. IF CRACKS IN CONCRETE COURTS OCCUR AT OTHER AREAS, PANELS OF CONCRETE SHALL BE REMOVED, REPLACED AND DOWELED INTO ADJACENT CONCRETE COURT PANELS AT THE CONTRACTOR'S EXPENSE.

DRAWING STATUS	SHEET	OF	C-22
CONSTRUCTION SET			
DATE: 6/29/20			



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DES. <b>DRO</b>	DRN. <b>JCW</b>	CKD. <b>DRO</b>	JOB NO. <b>1704-13</b>
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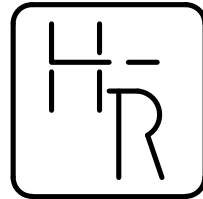




PRIVATE SANITARY SEWER LINE  
CONSTRUCTION NOTES:

- 1 INSTALL 8" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 2 INSTALL SEWER CLEANOUT (MAG STANDARD DETAIL NO. 441).
- 3 CONNECT TO BUILDING SEWER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 4 INSTALL 6" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 5 INSTALL 4" DIAMETER SEWER MANHOLE (MAG STANDARD DETAIL NO.'S 420-1 AND 420-2). INSTALL MANHOLE COVER (MAG STANDARD DETAIL NO.'S 424-1 AND 424-2 AND CITY OF SCOTTSDALE STANDARD DETAIL NO. 2421). MANHOLE ADJUSTMENT PER MAG STANDARD DETAIL NO. 422. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION

- 6 CONNECT TO EXISTING SEWER MANHOLE WITH A WATERTIGHT CONNECTION. REMOVE AND REFORM BASE AS NEEDED. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.
- 7 INSTALL 4" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 8 ROTATE WYE TO VERTICAL.
- 9 INSTALL 4" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.



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DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

PRIVATE DOMESTIC WATER LINE  
CONSTRUCTION NOTES:

- 1 INSTALL 4" P.V.C. (RING TITE, CLASS 200) WATER LINE WITH CAST IRON BENDS AND FITTINGS.
- 2 INSTALL 4" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 3 CONNECT TO BUILDING DOMESTIC WATER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 4 INSTALL 3" P.V.C. (RING TITE, CLASS 200) WATER LINE IWTH CAST IRON BENDS AND FITTINGS.
- 5 INSTALL 3" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 6 INSTALL 2-1/2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS AND FITTINGS AND CONCRETE THRUST BLOCKS.
- 7 INSTALL 2-1/2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
- 8 **INSTALL 1/2" TYPE L COPPER WATER LINE**
- 9 CONNECT TO EXISTING WATER METER.
- 10 INSTALL 4" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2353).
- 11 INSTALL 4" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 12 INSTALL 4" TO 3" REDUCER
- 13 INSTALL 4" TO 2" REDUCER
- 14 INSTALL 2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS AND FITTINGS AND CONCRETE THRUST BLOCKS.
- 15 INSTALL 2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
- 16 **INSTALL 3" TYPE L COPPER WATER LINE**

PRIVATE FIRE LINE CONSTRUCTION NOTES:

- 1 SEE PUBLIC WATER LINE PLANS FOR CONTINUATION.
- 2 CONNECT TO BUILDING FIRE PROTECTION SYSTEM WITH NECESSARY AND APPROPRIATE FITTINGS. SEE FIRE PROTECTION AND PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- 3 INSTALL REMOTE FIRE DEPARTMENT CONNECTION (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2367).
- 4 DOUBLE CHECK BACKFLOW PREVENTION IN RISER, PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2368. SEE FIRE PROTECTION DRAWINGS.
- 5 INSTALL 8" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 6 INSTALL 4" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 7 INSTALL 4"-90° BEND.
- 8 INSTALL 8"-90° BEND.
- 9 INSTALL 8" x 8" TEE.
- 10 INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 11 INSTALL 4"-45° BEND.

PRIVATE DOMESTIC WATER, PRIVATE FIRE LINE  
AND PRIVATE SANITARY SEWER LINE PLANS

SCOTTSDALE UNIFIED SCHOOL DISTRICT #48

IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
DATE: 6/29/20	23	35	C-23

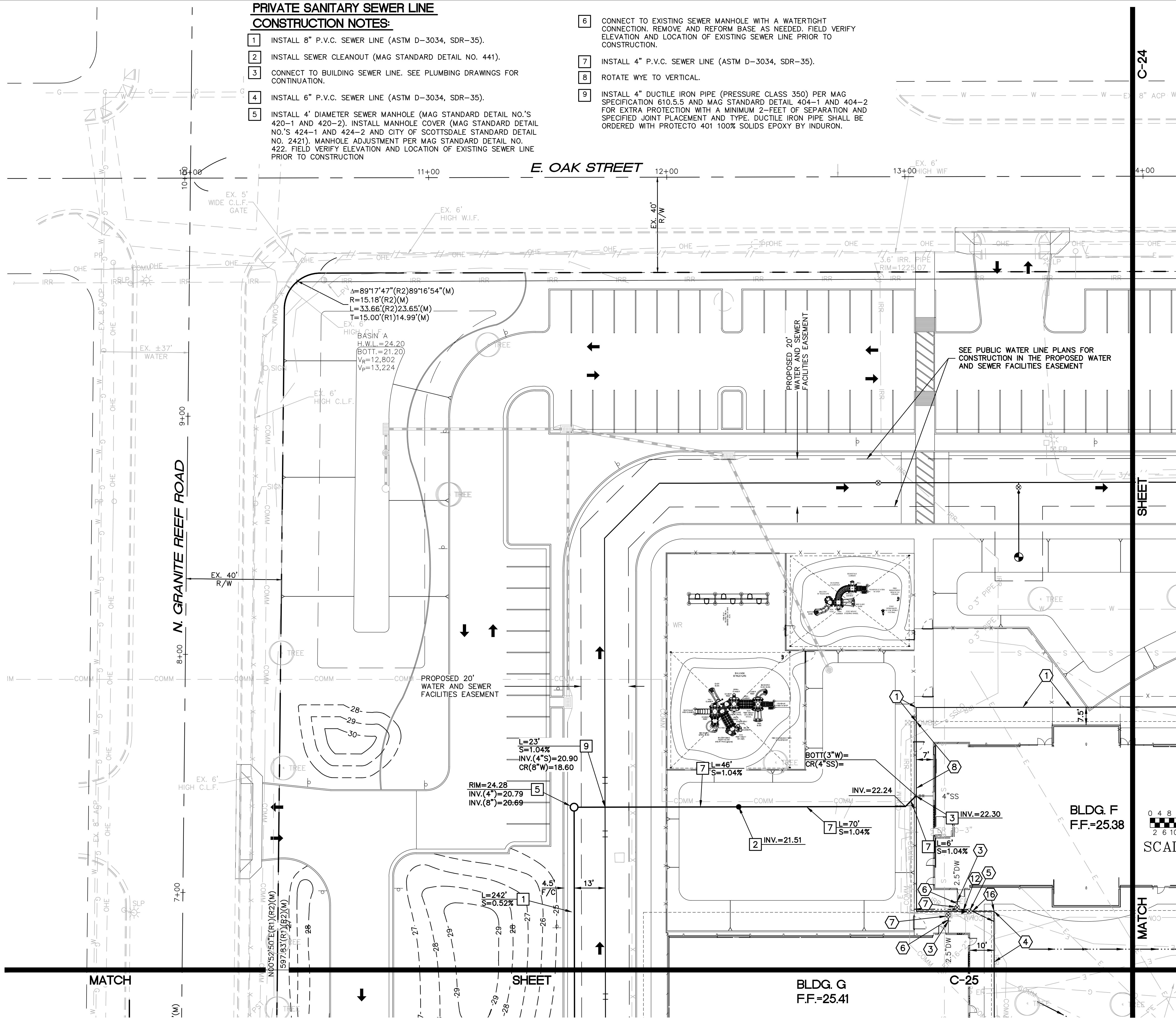


NOTE:

SEE PRIVATE FIRE LINE THRUST BLOCK NOTES ON SHEET C-26

NOTE:

SEE DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR ON SHEET C-3 FOR TRACER WIRE AND A.B.C. BEDDING/BACKFILL REQUIREMENTS.





**CONSTRUCTION NOTES:**

- 1 INSTALL 8" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 2 INSTALL SEWER CLEANOUT (MAG STANDARD DETAIL NO. 441).
- 3 CONNECT TO BUILDING SEWER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 4 INSTALL 6" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 5 INSTALL 4" DIAMETER SEWER MANHOLE (MAG STANDARD DETAIL NO.'S 420-1 AND 420-2). INSTALL MANHOLE COVER (MAG STANDARD DETAIL NO.'S 424-1 AND 424-2 AND CITY OF SCOTTSDALE STANDARD DETAIL NO. 2421). MANHOLE ADJUSTMENT PER MAG STANDARD DETAIL NO. 422. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION

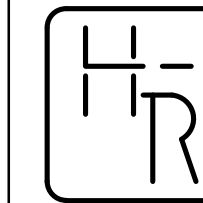
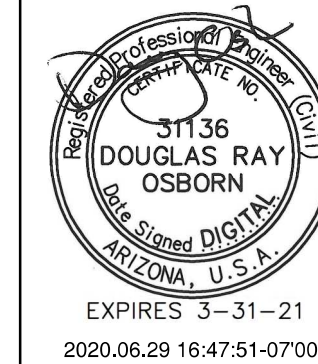
6. CONNECT TO EXISTING SEWER MANHOLE WITH A WATERTIGHT CONNECTION. REMOVE AND REFORM BASE AS NEEDED. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.
7. INSTALL 4" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
8. ROTATE WYE TO VERTICAL.
9. INSTALL 4" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.
10. INSTALL 8" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.

**NOTE:**

SEE DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR ON SHEET C-3 FOR  
TRACER WIRE AND A.B.C. BEDDING/BACKFILL REQUIREMENTS.

**NOTE:**

SEE PRIVATE FIRE LINE THRUST BLOCK NOTES ON SHEET C-26



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DES. <b>DRO</b>	DRN. <b>JCW</b>	CKD. <b>DRO</b>	JOB NO. <b>1704-13</b>
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**CONSTRUCTION NOTES:**

- 1 INSTALL 4" P.V.C. (RING TITE, CLASS 200) WATER LINE WITH CAST IRON BENDS AND FITTINGS.
- 2 INSTALL 4" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 3 CONNECT TO BUILDING DOMESTIC WATER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 4 INSTALL 3" P.V.C. (RING TITE, CLASS 200) WATER LINE IWTH CAST IRON BENDS AND FITTINGS.
- 5 INSTALL 3" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 6 INSTALL 2-1/2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS AND FITTINGS AND CONCRETE THRUST BLOCKS.
- 7 INSTALL 2-1/2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
- 8 INSTALL 4" TYPE L COPPER WATER LINE.
- 9 CONNECT TO EXISTING WATER METER.
- 10 INSTALL 4" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2353).
- 11 INSTALL 4" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 12 INSTALL 4" TO 3" REDUCER
- 13 INSTALL 4" TO 2" REDUCER
- 14 INSTALL 2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS AND FITTINGS AND CONCRETE THRUST BLOCKS.
- 15 INSTALL 2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
- 16 INSTALL 3" TYPE L COPPER WATER LINE

**PRIVATE FIRE LINE CONSTRUCTION NOTES:**

- 1 SEE PUBLIC WATER LINE PLANS FOR CONTINUATION.
- 2 CONNECT TO BUILDING FIRE PROTECTION SYSTEM WITH NECESSARY AND APPROPRIATE FITTINGS. SEE FIRE PROTECTION AND PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- 3 INSTALL REMOTE FIRE DEPARTMENT CONNECTION (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2367).
- 4 DOUBLE CHECK BACKFLOW PREVENTION IN RISER, PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2368. SEE FIRE PROTECTION DRAWINGS.
- 5 INSTALL 8" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 6 INSTALL 4" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 7 INSTALL 4"—90° BEND.
- 8 INSTALL 8"—90° BEND.
- 9 INSTALL 8" X 8" TEE.
- 10 INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 11 INSTALL 4"—45' BEND.

### PRIVATE DOMESTIC WATER, PRIVATE FIRE LINE AND PRIVATE SANITARY SEWER LINE PLANS

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

### IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL

DRAWING STATUS		SHEET	OF	C-24
CONSTRUCTION SET				
DATE: 6/29/20		24	35	

DATE: 6/29/20

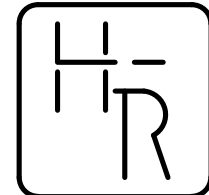
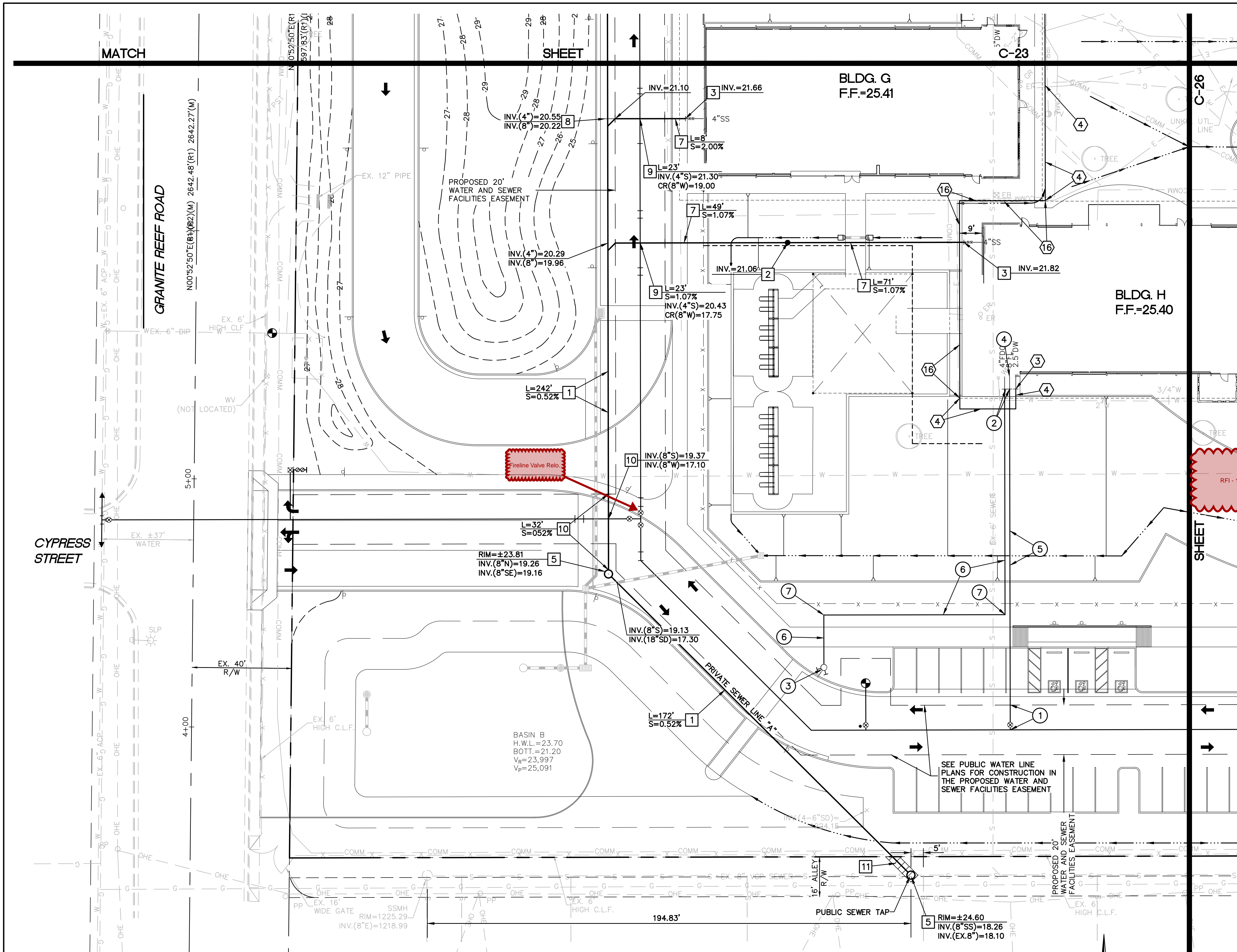
24

35

C-24

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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**PRIVATE DOMESTIC WATER LINE  
CONSTRUCTION NOTES:**

1. INSTALL 4" P.V.C. (RING TITE, CLASS 200) WATER LINE WITH CAST IRON BENDS AND FITTINGS.
2. INSTALL 4" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
3. CONNECT TO BUILDING DOMESTIC WATER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
4. INSTALL 3" P.V.C. (RING TITE, CLASS 200) WATER LINE IWTH CAST IRON BENDS AND FITTINGS.
5. INSTALL 3" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
6. INSTALL 2-1/2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS AND FITTINGS AND CONCRETE THRUST BLOCKS.
7. INSTALL 2-1/2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
8. **INSTALL 4" TYPE L COPPER WATER LINE**
9. CONNECT TO EXISTING WATER METER.
10. INSTALL 4" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2353).
11. INSTALL 4" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
12. INSTALL 4" TO 3" REDUCER
13. INSTALL 4" TO 2" REDUCER
14. INSTALL 2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS AND FITTINGS AND CONCRETE THRUST BLOCKS.
15. INSTALL 2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
16. **INSTALL 3" TYPE L COPPER WATER LINE**

**PRIVATE FIRE LINE CONSTRUCTION NOTES:**

1. SEE PUBLIC WATER LINE PLANS FOR CONTINUATION.
2. CONNECT TO BUILDING FIRE PROTECTION SYSTEM WITH NECESSARY AND APPROPRIATE FITTINGS. SEE FIRE PROTECTION AND PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
3. INSTALL REMOTE FIRE DEPARTMENT CONNECTION (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2367).
4. DOUBLE CHECK BACKFLOW PREVENTION IN RISER, PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2368. SEE FIRE PROTECTION DRAWINGS.
5. INSTALL 8" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
6. INSTALL 4" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
7. INSTALL 4"-90° BEND.
8. INSTALL 8"-90° BEND.
9. INSTALL 8" X 8" TEE.
10. INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
11. INSTALL 4"-45° BEND.

**NOTE:**

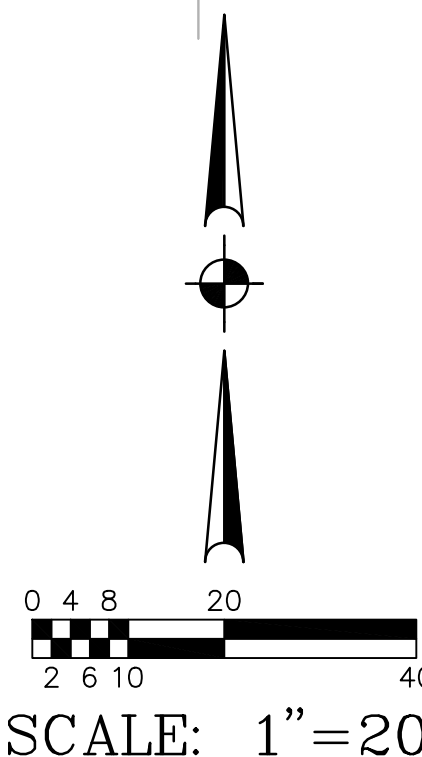
SEE DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR ON SHEET C-3 FOR TRACER WIRE AND A.B.C. BEDDING/BACKFILL REQUIREMENTS.

**PRIVATE DOMESTIC WATER, PRIVATE FIRE LINE  
AND PRIVATE SANITARY SEWER LINE PLANS**

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	C-25
CONSTRUCTION SET	25	35	
DATE: 6/29/20			



**PRIVATE SANITARY SEWER LINE  
CONSTRUCTION NOTES:**

1. INSTALL 8" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
2. INSTALL SEWER CLEANOUT (MAG STANDARD DETAIL NO. 441).
3. CONNECT TO BUILDING SEWER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
4. INSTALL 6" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
5. INSTALL 4' DIAMETER SEWER MANHOLE (MAG STANDARD DETAIL NO.'S 420-1 AND 420-2). INSTALL MANHOLE COVER (MAG STANDARD DETAIL NO.'S 424-1 AND 424-2 AND CITY OF SCOTTSDALE STANDARD DETAIL NO. 2421). MANHOLE ADJUSTMENT PER MAG STANDARD DETAIL NO. 422. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION

6. CONNECT TO EXISTING SEWER MANHOLE WITH A WATERTIGHT CONNECTION. REMOVE AND REFORM BASE AS NEEDED. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.
7. INSTALL 4" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
8. ROTATE WYE TO VERTICAL.
9. INSTALL 4" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.
10. INSTALL 8" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.

11. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2200 (T-TOP) OR REPLACE IN KIND WHICHEVER IS GREATER, TRENCHING AND BACKFILL PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2201, TYPE "A").
12. CONNECT TO EXISTING SEWER LINE PER MAG STANDARD DETAIL NO. 440-3, TYPE 'C'.



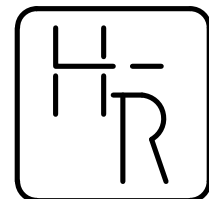
PRIVATE SANITARY SEWER LINE

CONSTRUCTION NOTES:

- 1 INSTALL 8" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 2 INSTALL SEWER CLEANOUT (MAG STANDARD DETAIL NO. 441).
- 3 CONNECT TO BUILDING SEWER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 4 INSTALL 6" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 5 INSTALL 4" DIAMETER SEWER MANHOLE (MAG STANDARD DETAIL NO.'S 420-1 AND 420-2). INSTALL MANHOLE COVER (MAG STANDARD DETAIL NO.'S 424-1 AND 424-2 AND CITY OF SCOTTSDALE STANDARD DETAIL NO. 2421). MANHOLE ADJUSTMENT PER MAG STANDARD DETAIL NO. 422. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION

- 6 CONNECT TO EXISTING SEWER MANHOLE WITH A WATERTIGHT CONNECTION. REMOVE AND REFORM BASE AS NEEDED. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.
- 7 INSTALL 4" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 8 ROTATE WYE TO VERTICAL.
- 9 INSTALL 4" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.
- 10 INSTALL 8" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.

- 11 SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2200 (T-TOP) OR REPLACE IN KIND WHICHEVER IS GREATER, TRENCHING AND BACKFILL PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2201, TYPE "A").
- 12 CONNECT TO EXISTING SEWER LINE PER MAG STANDARD DETAIL NO. 440-3, TYPE 'C'.



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DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

PRIVATE DOMESTIC WATER LINE

CONSTRUCTION NOTES:

- 1 INSTALL 4" P.V.C. (RING TITE, CLASS 200) WATER LINE WITH CAST IRON BENDS AND FITTINGS.
- 2 INSTALL 4" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 3 CONNECT TO BUILDING DOMESTIC WATER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 4 INSTALL 3" P.V.C. (RING TITE, CLASS 200) WATER LINE WITH CAST IRON BENDS AND FITTINGS.
- 5 INSTALL 3" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 6 INSTALL 2-1/2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS AND FITTINGS AND CONCRETE THRUST BLOCKS.
- 7 INSTALL 2-1/2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
- 8 INSTALL 4" TYPE L COPPER WATER LINE.
- 9 CONNECT TO EXISTING WATER METER.
- 10 INSTALL 4" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2353).
- 11 INSTALL 4" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 12 INSTALL 4" TO 3" REDUCER
- 13 INSTALL 4" TO 2" REDUCER
- 14 INSTALL 2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS AND FITTINGS AND CONCRETE THRUST BLOCKS.
- 15 INSTALL 2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
- 16 INSTALL 3" TYPE L COPPER WATER LINE.

PRIVATE FIRE LINE CONSTRUCTION NOTES:

- 1 SEE PUBLIC WATER LINE PLANS FOR CONTINUATION.
- 2 CONNECT TO BUILDING FIRE PROTECTION SYSTEM WITH NECESSARY AND APPROPRIATE FITTINGS. SEE FIRE PROTECTION AND PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- 3 INSTALL REMOTE FIRE DEPARTMENT CONNECTION (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2367).
- 4 DOUBLE CHECK BACKFLOW PREVENTION IN RISER, PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2368. SEE FIRE PROTECTION DRAWINGS.
- 5 INSTALL 8" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 6 INSTALL 4" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 7 INSTALL 4"-90° BEND.
- 8 INSTALL 8"-90° BEND.
- 9 INSTALL 8" X 8" TEE.
- 10 INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
- 11 INSTALL 4"-45° BEND.

ASI 005 SRP  
REVISIONS (07-24-20)

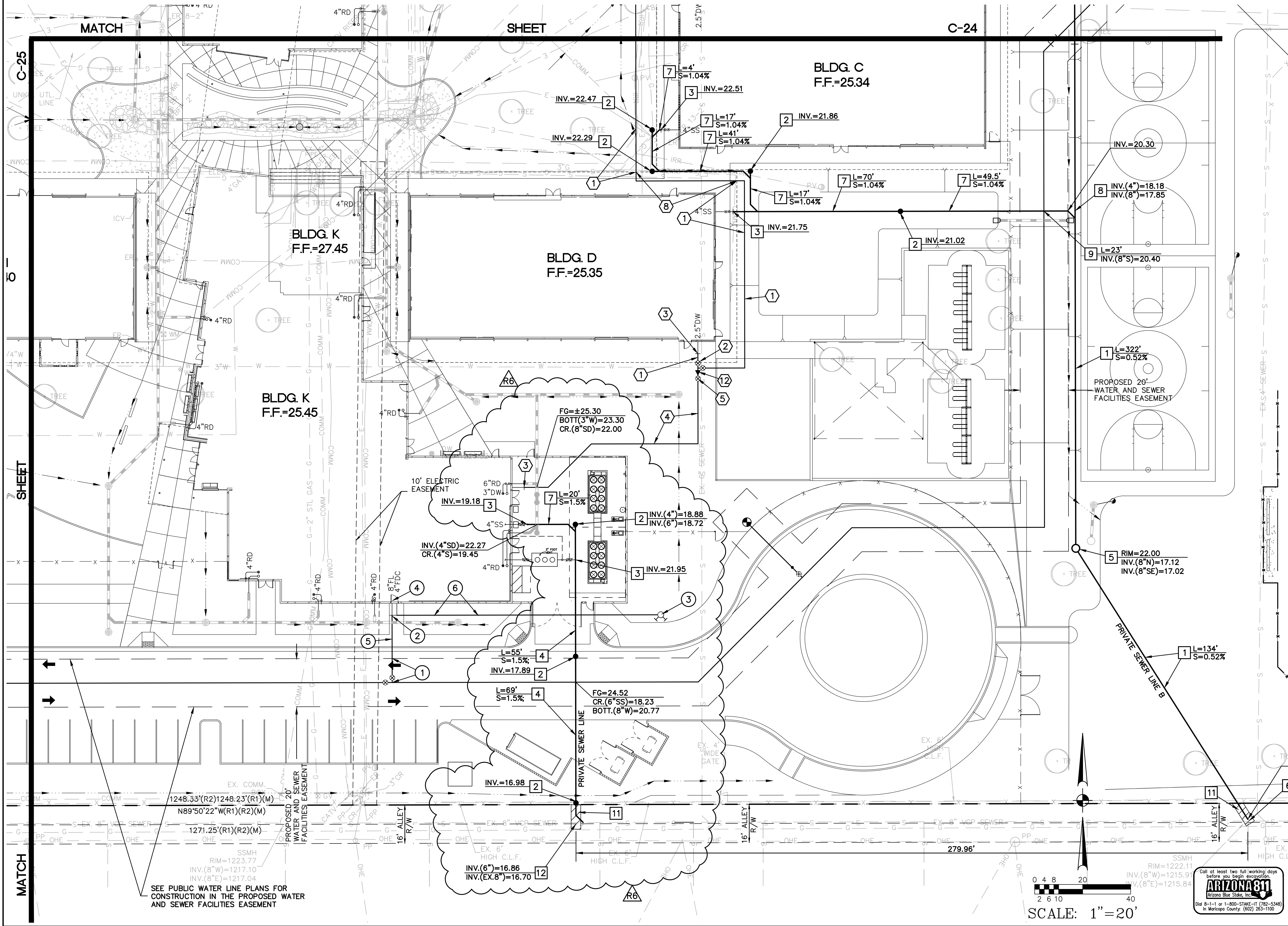
PUBLIC SEWER TAP  
RIM=±22.11  
INV.(8"NW)=16.32  
INV.(EX.8"E)=15.84

PRIVATE DOMESTIC WATER, PRIVATE FIRE LINE  
AND PRIVATE SANITARY SEWER LINE PLANS

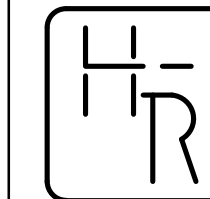
SCOTTSDALE UNIFIED SCHOOL DISTRICT #48

IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
DATE: 6/29/20	26	35	C-26



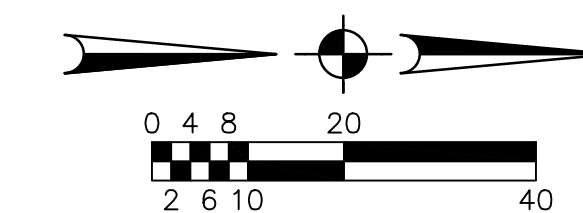
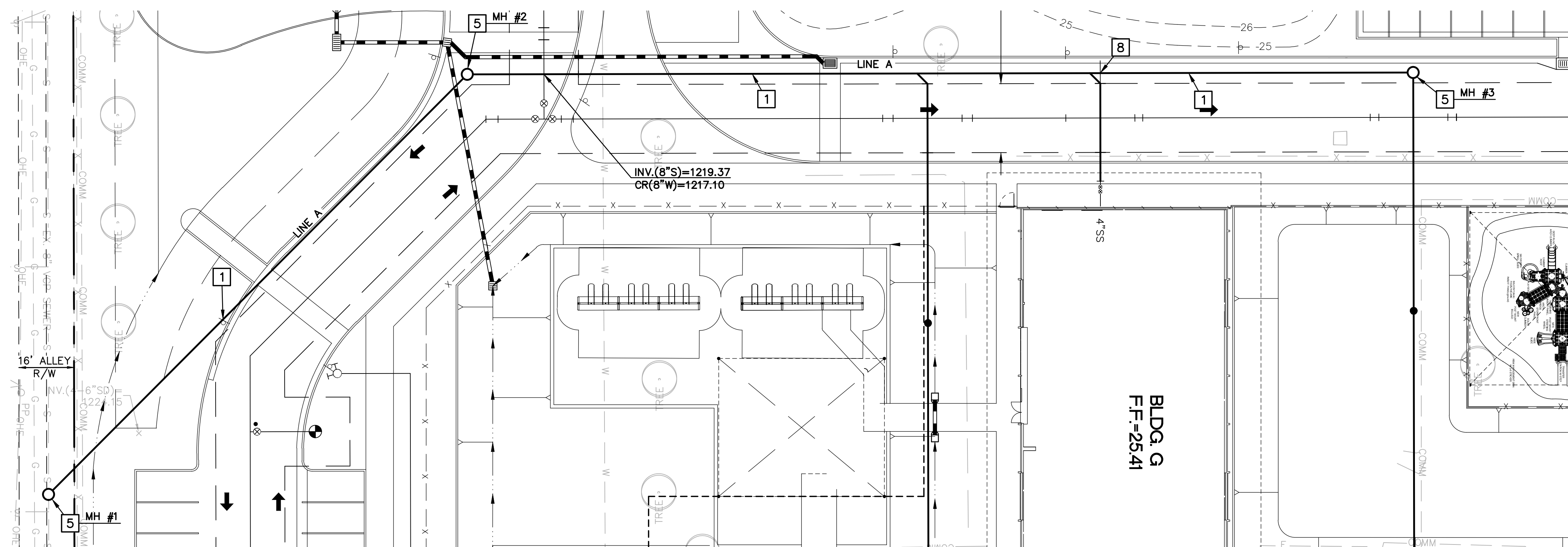




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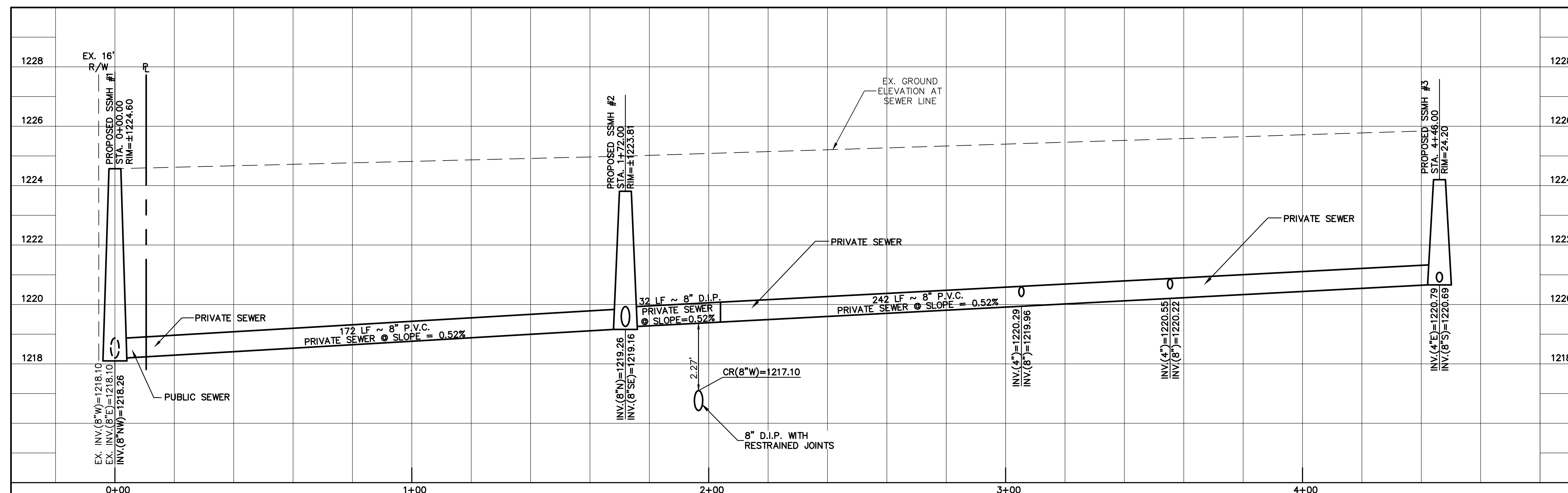
DES. <b>DRO</b>	DRN. <b>JCW</b>	CKD. <b>DRO</b>	JOB NO. <b>1704-13</b>
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- 1 INSTALL 2" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 2 INSTALL SEWER CLEANOUT (MAG STANDARD DETAIL NO. 441).
- 3 CONNECT TO BUILDING SEWER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 4 INSTALL 6" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 5 INSTALL 4' DIAMETER SEWER MANHOLE (MAG STANDARD DETAIL NO.'S 420-1 AND 420-2). INSTALL MANHOLE COVER (MAG STANDARD DETAIL NO.'S 424-1 AND 424-2 AND CITY OF SCOTTSDALE STANDARD DETAIL NO. 2421). MANHOLE ADJUSTMENT PER MAG STANDARD DETAIL NO. 424-2. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.
- 6 CONNECT TO EXISTING SEWER MANHOLE WITH A WATERTIGHT CONNECTION. REMOVE AND REFORM BASE AS NEEDED. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.
- 7 INSTALL 4" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
- 8 ROTATE WYE TO VERTICAL.
- 9 INSTALL 4" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.
- 10 INSTALL 8" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2'-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.
- 11 SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2200 (T-TOP)) OR REPLACE IN KIND WHICHEVER IS GREATER, TRENCHING AND BACKFILL PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2201, TYPE "A").
- 12 CONNECT TO EXISTING SEWER LINE PER MAG STANDARD DETAIL NO. 440-3, TYPE 'C'.



SCALE: 1"=20

LINE A



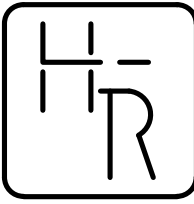
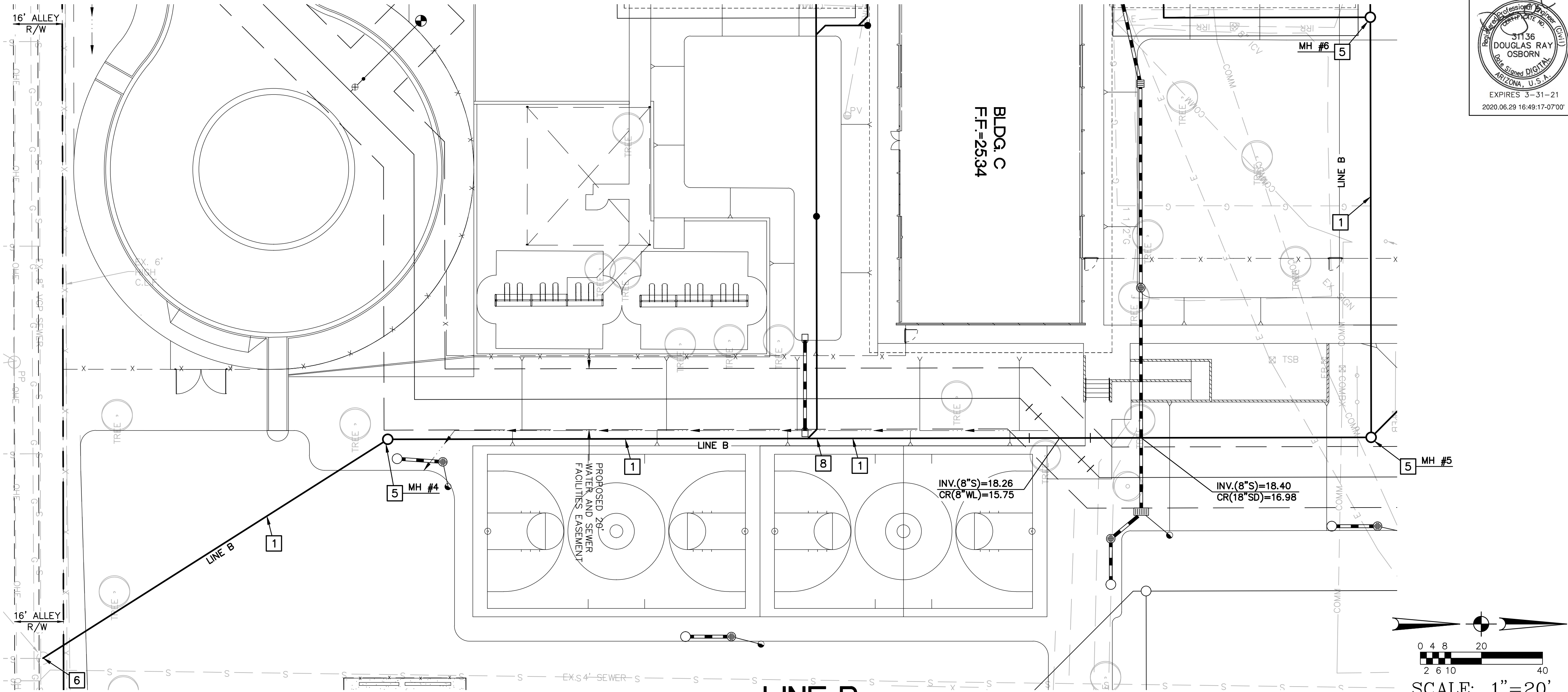
PRIVATE SANITARY SEWER - PLAN AND PROFILE			
SCOTTSDALE UNIFIED SCHOOL DISTRICT #48			
IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-27
CONSTRUCTION SET	27	35	
DATE: 6/29/20			

**PROFILE SCALE:**  
**VERTICAL:** 1" = 2'  
**HORIZONTAL:** 1" = 20'



1880



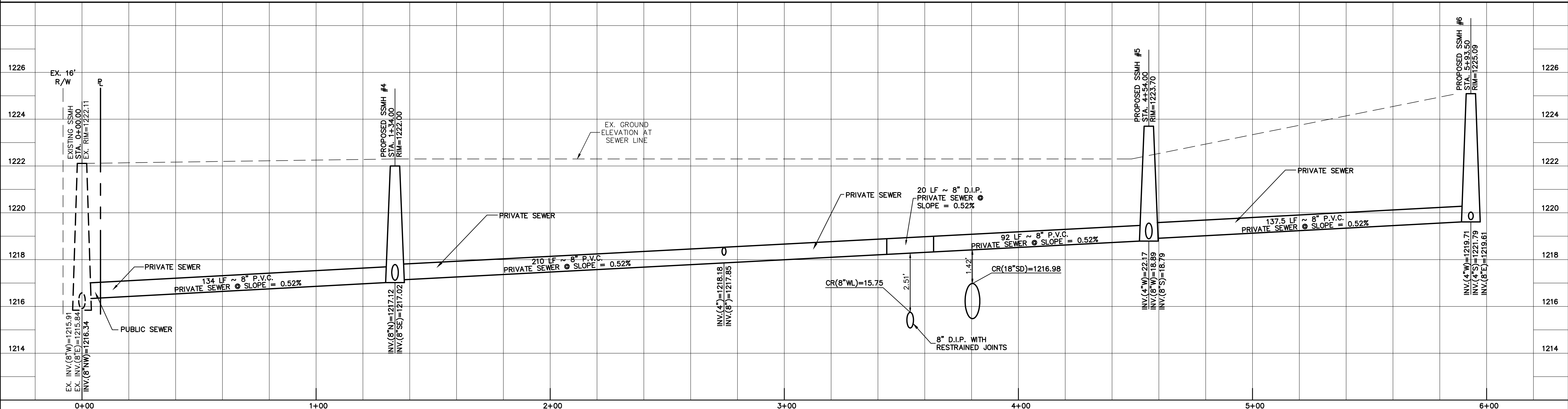


HESS - ROUNTREE, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**PRIVATE SANITARY SEWER LINE  
CONSTRUCTION NOTES:**

1. INSTALL 8" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
2. INSTALL SEWER CLEANOUT (MAG STANDARD DETAIL NO. 441).
3. CONNECT TO BUILDING SEWER LINE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
4. INSTALL 6" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
5. INSTALL 4' DIAMETER SEWER MANHOLE (MAG STANDARD DETAIL NO.'S 420-1 AND 420-2). INSTALL MANHOLE COVER (MAG STANDARD DETAIL NO.'S 424-1 AND 424-2 AND CITY OF SCOTTSDALE STANDARD DETAIL NO. 2421). MANHOLE ADJUSTMENT PER MAG STANDARD DETAIL NO. 422. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.
6. CONNECT TO EXISTING SEWER MANHOLE WITH A WATERTIGHT CONNECTION. REMOVE AND REFORM BASE AS NEEDED. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.
7. INSTALL 4" P.V.C. SEWER LINE (ASTM D-3034, SDR-35).
8. ROTATE WYE TO VERTICAL.
9. INSTALL 4" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.
10. INSTALL 8" DUCTILE IRON PIPE (PRESSURE CLASS 350) PER MAG SPECIFICATION 610.5.5 AND MAG STANDARD DETAIL 404-1 AND 404-2 FOR EXTRA PROTECTION WITH A MINIMUM 2-FEET OF SEPARATION AND SPECIFIED JOINT PLACEMENT AND TYPE. DUCTILE IRON PIPE SHALL BE ORDERED WITH PROTECTO 401 100% SOLIDS EPOXY BY INDURON.
11. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2200 (T-TOP) OR REPLACE IN KIND WHICHEVER IS GREATER, TRENCHING AND BACKFILL PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2201, TYPE "A").
12. CONNECT TO EXISTING SEWER LINE PER MAG STANDARD DETAIL NO. 440-3, TYPE 'C'.



PROFILE SCALE:  
VERTICAL: 1" = 2'  
HORIZONTAL: 1" = 20'



**PRIVATE SANITARY SEWER - PLAN AND PROFILE  
SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-28
CONSTRUCTION SET			
DATE: 6/29/20	28	35	

170413MS7.DWG



1) PROJECT DESCRIPTION

- A. PROPOSED CONSTRUCTION ACTIVITY:  
THIS PROJECT INCLUDES CONSTRUCTION OF TWO NEW BUILDINGS, RENOVATION OF 6 EXISTING BUILDINGS, TWO NEW PARKING LOTS, A BUS DROP-OFF AREA, A PARENT DROP-OFF AREA, SIDEWALK, FIRE LANE, SINGLE CURB, CURB AND GUTTER, VALLEY GUTTER, STORM DRAIN SYSTEM AND INSTALLATION OF A NEW DOMESTIC WATER AND SANITARY SEWER TO THE NEW BUILDINGS. THE TOTAL SITE AREA IS APPROXIMATELY 18 ACRES. SOIL DISTURBING ACTIVITIES WILL INCLUDE CLEARING, GRADING, TRENCHING AND BACKFILLING FOR UTILITIES, CONCRETE INSTALLATION AND LANDSCAPING.
- B. SEQUENCE OF CONSTRUCTION ACTIVITY:  
THE SEQUENCE OF EVENTS IS ANTICIPATED TO BE AS FOLLOWS:  
1) CLEARING AND GRUBBING  
2) ROUGH GRADING  
3) INSTALLATION OF UTILITIES  
4) FINAL GRADING  
5) CONCRETE AND IMPROVEMENTS  
6) LANDSCAPING IMPROVEMENTS
- C. AREA OF SOIL DISTURBANCE:  
SOIL: SANDY CLAY  
ERODABILITY: MODERATE  
IT IS ESTIMATED THAT THE TOTAL AREA OF SOIL DISTURBANCE IS APPROXIMATELY 18 ACRES.
- D. RUN-OFF COEFFICIENTS:  
THE ESTIMATED RUN-OFF COEFFICIENTS FOR THE PROJECT ARE AS FOLLOWS:  
1) PRE-DEVELOPMENT RUN-OFF COEFFICIENT = 0.90  
2) POST-DEVELOPMENT RUN-OFF COEFFICIENT = 0.90
- E. QUALITY OF SITE STORM WATER DISCHARGE:  
PRIMARY POLLUTANT: SITE SOIL  
IT IS NOT ANTICIPATED THAT ANY HAZARDOUS MATERIALS WILL TYPICALLY BE CONTAINED WITHIN STORM WATER DISCHARGE. THE EXCEPTION TO THIS WOULD BE ANY FUELS OR LUBRICANTS LEAKED FROM VEHICLES OR EQUIPMENT AND ANY FERTILIZERS OR HERBICIDES USED DURING THE LANDSCAPE IMPROVEMENTS.
- F. RECEIVING BODY OF WATER:  
THE ULTIMATE RECEIVING BODY OF WATER, WHICH WOULD RECEIVE ANY STORM WATER IN EXCESS OF THAT CONTAINED WITHIN THE PROPOSED AND EXISTING RETENTION BASINS, IS THE INDIAN BEND WASH.
- G. GRADING AND DRAINAGE PLAN:  
THE GRADING AND DRAINAGE PLAN AS PREPARED BY HESS-ROUNTREE, INC., PROJECT #1704-13 SHALL BE CONSIDERED A PART OF THE STORMWATER MANAGEMENT PLAN, AND ALL FINAL GRADING AND IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THAT PLAN.
- H. NO WATER BODIES ARE ON SITE.

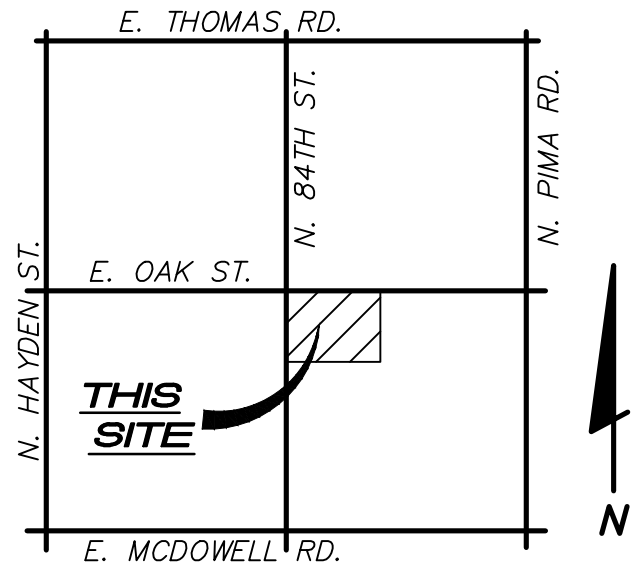
2) EROSION AND SEDIMENT CONTROLS

- A. IMMEDIATELY FOLLOWING CLEARING AND GRUBBING, AND AS PART OF THE INITIAL ROUGH GRADING, ALL RETENTION BASINS SHALL BE CUT TO GRADE AND PERIMETER BERMS CONSTRUCTED. THE BASINS AND BERMS SHALL CONSTITUTE THE REQUIRED SEDIMENT BASINS. GRADES SHALL BE CUT (OR BERMING OR STRAW BALES SHALL BE PROVIDED) TO ASSURE THAT RUNOFF IS CONVEYED TO THE BASINS.
- B. ANY DISTURBED AREAS WHERE CONSTRUCTION HAS PERMANENTLY OR TEMPORARILY CEASED SHALL BE STABILIZED TO PREVENT EROSION. AN ACCEPTABLE STABILIZATION METHOD IS HYDROSEEDING. AREAS WHICH WILL BE REDISTURBED WITHIN 21 DAYS DO NOT HAVE TO BE STABILIZED.
- C. THE RETENTION BASINS WHICH ARE SIZED TO CONTAIN THE 100-YR STORM EVENT SHALL ALSO ACT AS THE REQUIRED SEDIMENT BASINS FOR THE PROJECT AND SHALL BE INSPECTED ON A MONTHLY BASIS AND AFTER EVERY HEAVY RAINFALL. NO FLOOD WATER AND THUS NO SEDIMENT CARRIED BY FLOOD WATER ESCAPES THESE BASINS. AS SUCH SEDIMENT SHALL BE REMOVED FROM THE BASINS AS NECESSARY TO MAINTAIN 100% OF THE REQUIRED CAPACITY OF THE BASIN DURING CONSTRUCTION.

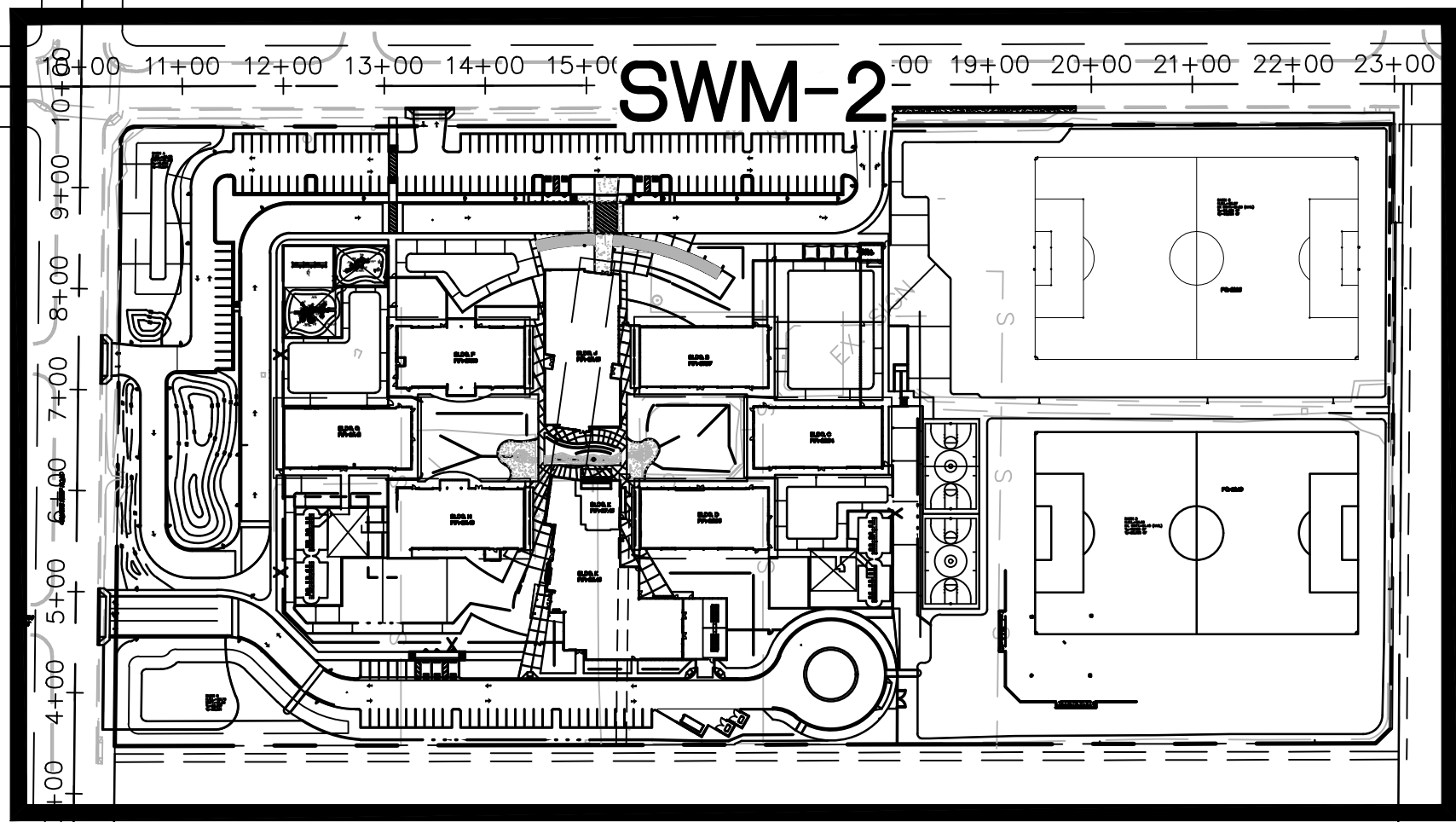
3) STORMWATER MANAGEMENT CONTROL

- A. THE CONTRACTOR, TOGETHER WITH THE OWNER AS COPERMITTEES, SHALL SUBMIT A NOTICE OF INTENT AT LEAST TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE EPA.
- B. THE CONTRACTOR SHALL OBTAIN A DUST CONTROL PERMIT FROM THE MARICOPA COUNTY HEALTH DEPARTMENT AND SHALL WATER THE SITE AT AN ADEQUATE FREQUENCY TO MINIMIZE AIRBORNE PARTICLES.
- C. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL RECORDS AT THE CONSTRUCTION SITE.
- D. THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF A RAINFALL OF 0.5" OR MORE. THE CONTRACTOR SHALL PREPARE A REPORT DOCUMENTING THEIR FINDINGS ON THE CONDITIONS OF THE CONTROLS AND ANY STABILIZED AREAS. THE CONTRACTOR SHALL MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY TO CORRECT ANY OBSERVED SEDIMENT OR EROSION PROBLEMS.
- E. PERMANENT LANDSCAPING AND PLACEMENT OF FINAL COVER MATERIALS SHALL OCCUR AS SOON AS PRACTICAL AFTER COMPLETION OF GRADING.
- F. THE CONTRACTOR, TOGETHER WITH THE OWNER, SHALL FILE A NOTICE OF TERMINATION WITH THE EPA AFTER COMPLETION OF ALL CONSTRUCTION AND LANDSCAPING ACTIVITIES.
- G. THE TERMS & CONDITION OF THIS PERMIT WILL BE MET.

**STORMWATER MANAGEMENT PLAN**  
**FOR**  
**HOHOKAM TRADITIONAL SCHOOL**  
**SITE ADDRESS: 8451 E. OAK ST., SCOTTSDALE, AZ 85257**  
**FOR**  
**SCOTTSDALE UNIFIED SCHOOL DISTRICT NO. 48**  
**7575 E. MAIN STREET,**  
**SCOTTSDALE, ARIZONA 85251**  
**PHONE: (480) 484-6100**  
**CONTACT:**



**VICINITY MAP**  
**NOT TO SCALE**



**SHEET INDEX MAP**  
**NOT TO SCALE**

**SHEET INDEX:**

SHEET NO.	DESCRIPTION
SW-1	STORMWATER MANAGEMENT PLAN - COVER SHEET
SW-2	STORMWATER MANAGEMENT PLAN

**OWNER:**

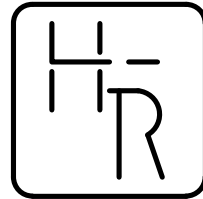
SCOTTSDALE UNIFIED SCHOOL DISTRICT NO. 48  
7575 E. MAIN STREET  
SCOTTSDALE, ARIZONA 85351  
PHONE: (480) 484-6100  
CONTACT: DENNIS ROEHLER

**ENGINEER:**

HESS-ROUNTREE, INC.  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044  
PHONE: (480) 496-0244  
FAX: (480) 496-0094  
CONTACT: DOUG OSBORN, P.E.

**SITE INFORMATION:**

NET AREA: 17.74 ACRES  
TOTAL DISTURBED AREA: 17.74 ACRES



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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR:**

- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
- THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING, SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
- THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.

**BENCHMARK:**

CITY OF SCOTTSDALE BENCHMARK #5011. MARICOPA COUNTY BRASS CAP IN HANDHOLE LOCATED AT THE INTERSECTION OF MCDOWELL ROAD AND 84TH.  
ELEVATION=1218.04 (CITY OF SCOTTSDALE NAVD88 DATUM)

**STORMWATER MANAGEMENT PLAN - COVER SHEET**

SCOTTSDALE UNIFIED SCHOOL DISTRICT #48			
IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-29
CONSTRUCTION SET			
	29	30	
DATE: 6/29/20			

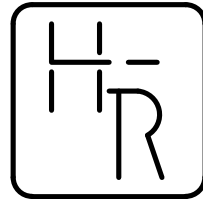


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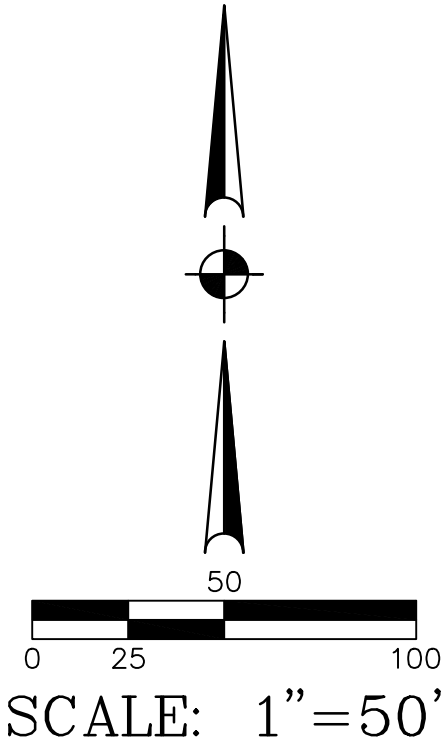
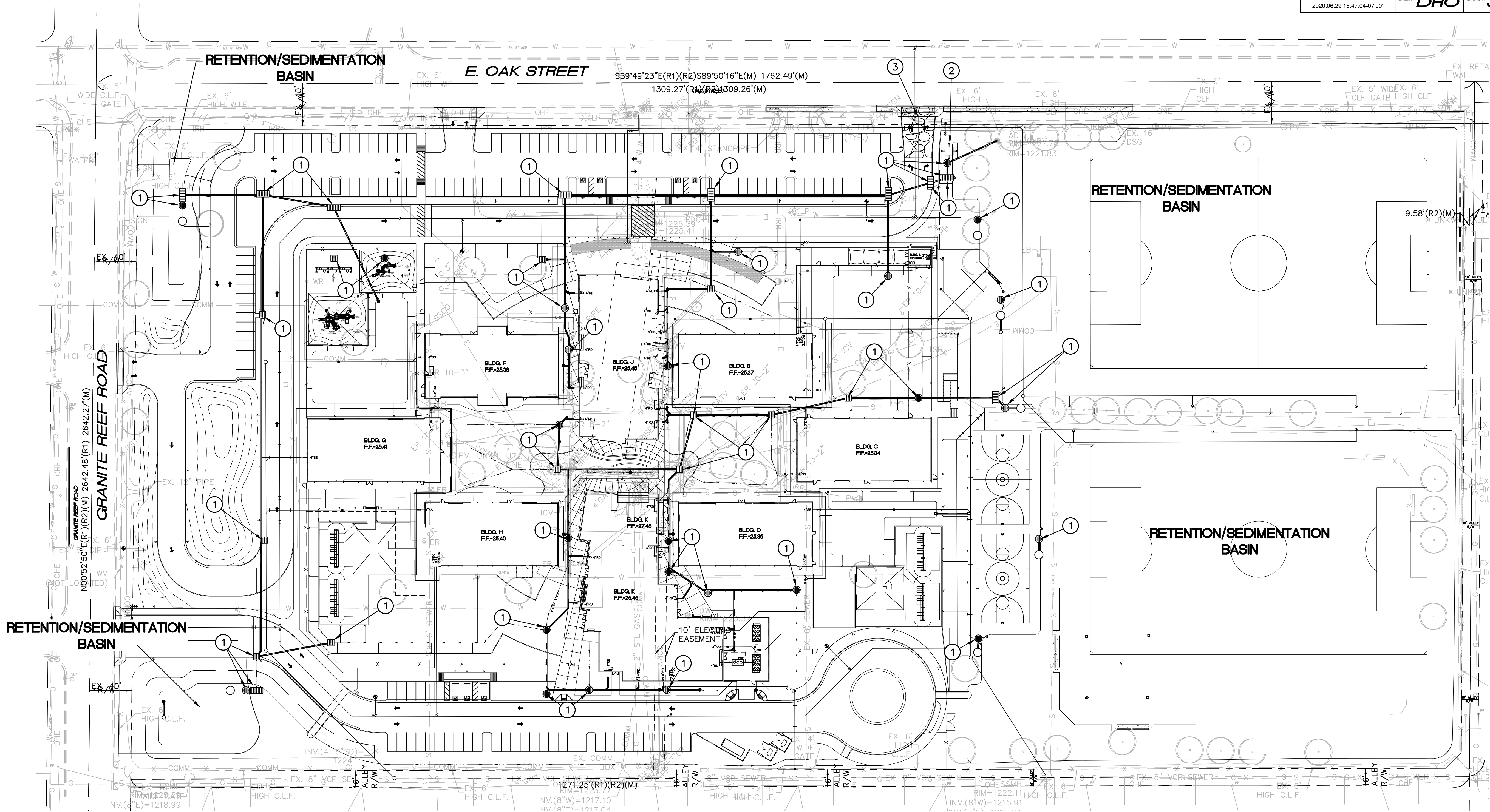
CONSTRUCTION NOTES:

- 1 INSTALL MIRAFI FABRIC (SEE DETAIL ON SHEET SW-2).
- 2 INSTALL CONCRETE WASHOUT (SEE DETAIL ON SHEET SW-2).
- 3 STABILIZED CONSTRUCTION ENTRANCE.



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DES. **DRO** DRN. **JCW** CKD. **DRO** JOB NO. **1704-13**

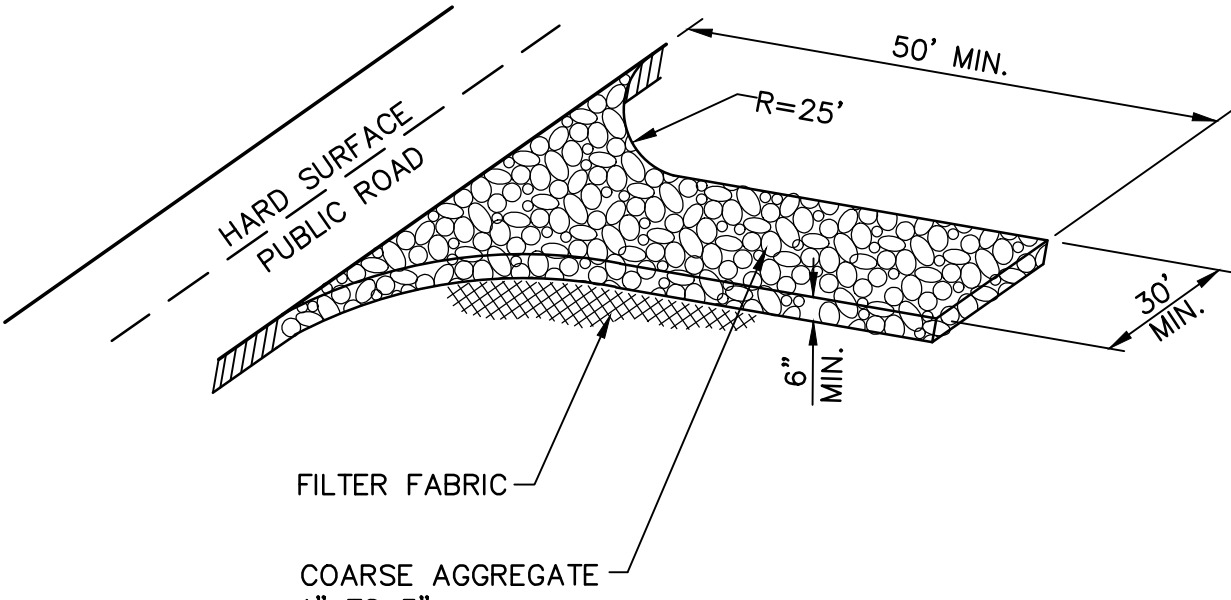


LEGEND

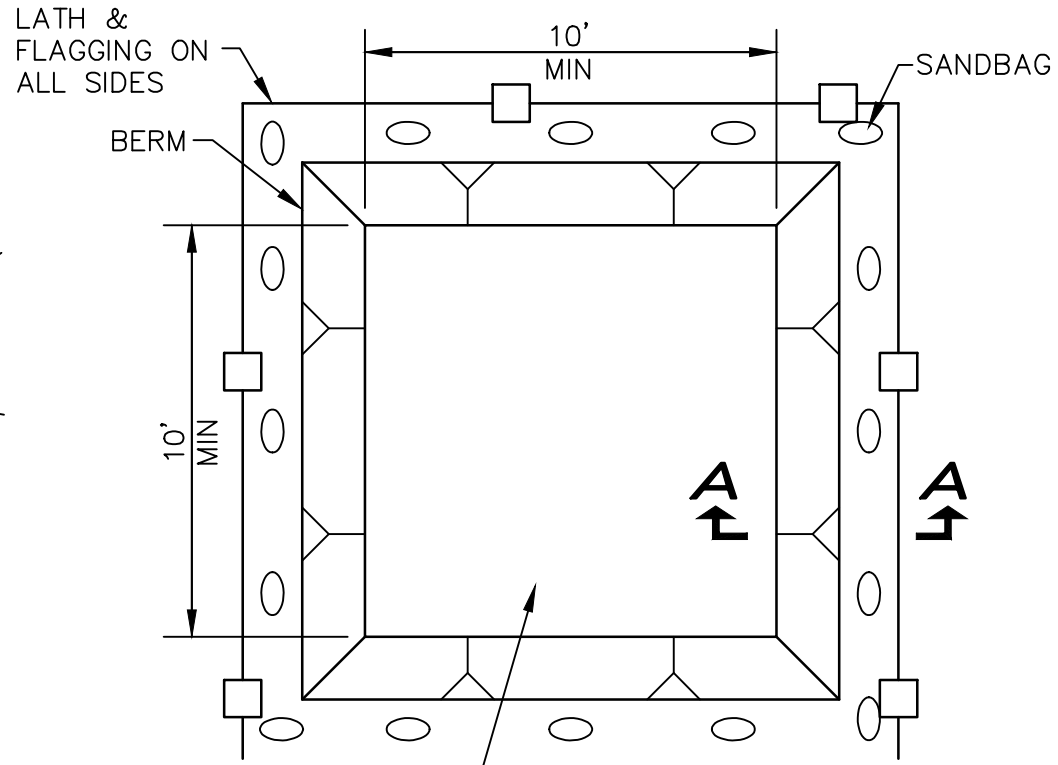
- PROPOSED SD MANHOLE
- ▤ PROPOSED DOUBLE CATCH BASIN
- ▦ PROPOSED CATCH BASIN
- PROPOSED AREA DRAIN
- DRAINAGE DIRECTION
- ▨ STABILIZED CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- PROPOSED STORM DRAIN PIPE

**NOTE:**  
CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL AND VEHICLE TRACK OUT MEASURES.

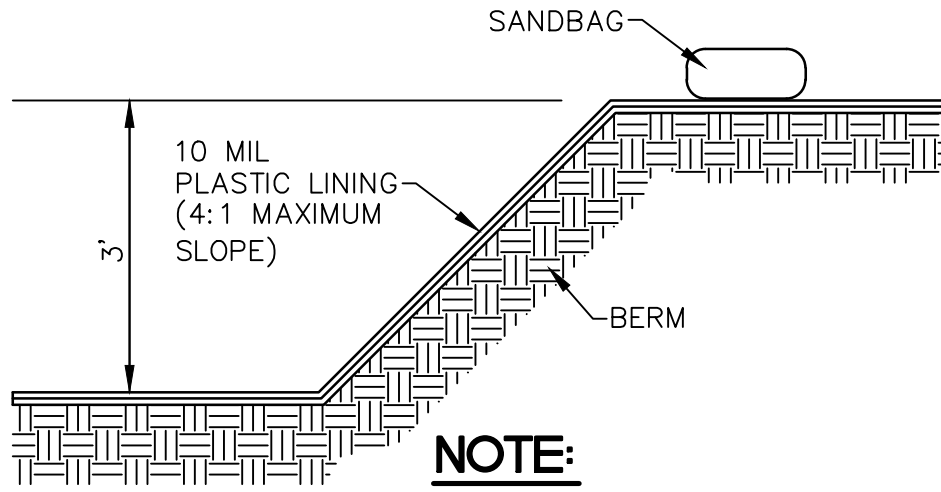
**NOTE:**  
ALL BUBBLER BOXES, AREA DRAINS, CATCH BASINS, TRENCH DRAINS, ETC. SHALL HAVE TWO LAYERS OF MIRAFI 100X FABRIC INSTALLED BENEATH THE GRATE. FABRIC SHALL NOT BE REMOVED UNTIL PAVING AND LANDSCAPING ARE COMPLETE.



**STABILIZED CONSTRUCTION ENTRANCES ONLY (EC-5)**  
NOT TO SCALE



**CONCRETE WASHOUT (GH-4)**  
NOT TO SCALE



**NOTE:**  
1. ACTUAL LAYOUT DETERMINED IN FIELD.  
**SECTION A-A**  
NOT TO SCALE

STORMWATER MANAGEMENT PLAN			
SCOTTSDALE UNIFIED SCHOOL DISTRICT #48			
IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-30
CONSTRUCTION SET	30	35	
DATE:	6/29/20		





GENERAL NOTES FOR PUBLIC WORKS CONSTRUCTION:

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE STANDARD SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS. IF THERE IS A CONFLICT, THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL GOVERN.
2. THE CITY ONLY APPROVED THE SCOPE, NOT THE DETAIL OF ENGINEERING DESIGNS; THEREFORE IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
3. THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF ASSOCIATED PERMIT HAS NOT BEEN ISSUED WITHIN THIS TIME FRAME, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR RE-APPROVAL.
4. A CITY INSPECTOR WILL INSPECT ALL WORKS WITHIN CITY OF SCOTTSDALE. NOTIFY INSPECTION SERVICES 72 HOURS BEFORE BEGINNING WORK.
5. WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER, 811, TWO WORKING DAYS BEFORE EXCAVATION BEGINS.
6. PERMISSION TO WORK IN THE RIGHT-OF-WAY (PWR) PERMITS ARE REQUIRED FOR ALL WORKS WITHIN THE RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.

OFFSITE QUANTITIES:

1.	8" TEE AND 8" VALVE, BOX AND COVER (C. O. S. STD. DETAIL NO. 2362-2).	2	EA
2.	8" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).	2545	LF
3.	8"-90° BEND.	2	EA
4.	8"-45° BEND.	10	EA
5.	8" X 6" X 8" TEE.	4	EA
6.	6" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).	99	LF
7.	8" X 8" X 8" TEE.	5	EA
8.	8" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT	12	EA
9.	6" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT	4	EA
10.	FIRE HYDRANT WITH CONCRETE COLLAR	4	EA
11.	SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT (C.O.S. S.D. NO. 2200 (T-TOP)	46	SY
12.	SAWCUT, REMOVE AND REPLACE VERTICAL CURB AND GUTTER (MAG S.D. NO. 220, TYPE A)	10	LF
13.	1-1/2" WATER SERVICE, METER AND BOX FOR LANDSCAPE WATER	2	EA
14.	SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT (C.O.S. S.D. NO 2200 (T-TOP) & 2201, TYPE 'A')	12	SY
15.	SAWCUT, REMOVE AND REPLACE VERTICAL CURB AND GUTTER (MAG S.D. NO. 220-1, TYPE 'A')	9	LF

FLOODPLAN MAP INFORMATION

COMMUNITY NUMBER	PANEL NUMBER AND DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	SHADED ZONE	BASE FLOOD ELEVATION (IN AO ZONE, USE DEPTH)
045013C	2235	L	11-4-15	X	N/A
	10-16-13				

THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ON THIS PLAN ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A 100-YEAR STORM, AND ARE IN ACCORDANCE WITH SCOTTSDALE REVISED CODE, CHAPTER 37 - FLOODPLAIN AND STORMWATER REGULATION.

NOTE:

THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE ONLY AND ARE AND SHALL REMAIN THE EXCLUSIVE PROPERTY OF HESS-ROUNTREE, INC. NO REPRODUCTION OR OTHER USE SHALL BE MADE BY ANY PERSON OR FIRM OTHER THAN HESS-ROUNTREE, INC. OR THE CITY OF SCOTTSDALE WITHOUT EXPRESS PERMISSION OF HESS-ROUNTREE, INC. ANY UNAUTHORIZED USE SHALL VOID THE ENGINEER'S SEAL AND SIGNATURE HEREON AND NO PROFESSIONAL RESPONSIBILITY WILL REMAIN.

NO CONFLICT SIGNATURE BLOCK

Utility	Utility Company	Name of Company Representative	Telephone Number	Date Submitted	Date Signed
Water	APS	Michael Bouche	608-371-7033	5-13-20	X
Water	Salt River Project	Matt Streeper	602-236-3105	5-13-20	5/21/20
Cable TV	Century Link	R-of-W Dept	N/A	5-13-20	5/14/20
	City of Scottsdale	Doug Mann	480-312-5636	5-13-20	X
Cable TV	Cox Communications	TMC Dept.	623-328-3554	5-13-20	X
Other	Southwest Gas Cop.	Greg Cooper	602-484-5276	5-13-20	6/10/20
Other	Zayo Group	Stake Center D	801-364-1063	5-13-20	X

ENGINEER'S CERTIFICATION

I, DOUG OSBORN, BEING THE PERSON RESPONSIBLE FOR DESIGNING THE FACILITIES NECESSARY TO SERVE THIS DEVELOPMENT, HEREBY CERTIFY THAT PLANS HAVE BEEN SUBMITTED TO ALL THE UTILITY COMPANIES LISTED ABOVE FOR CONFLICT REVIEW. "NO CONFLICT" FORMS HAVE BEEN OBTAINED FROM EACH UTILITY COMPANY THAT RESPONDED AND ARE INCLUDED IN THIS SUBMITTAL. CONFLICTS IDENTIFIED BY UTILITY COMPANY RESPONSES HAVE BEEN RESOLVED.

SIGNATURE

DATE

OWNER:

SCOTTSDALE UNIFIED SCHOOL DISTRICT NO. 48  
48  
7575 E. MAIN STREET  
SCOTTSDALE, ARIZONA 85351  
PHONE: (480) 484-6100  
CONTACT: DENNIS ROEHLER

ENGINEER:

HESS-ROUNTREE, INC.  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044  
PHONE: (480) 496-0244  
FAX: (480) 496-0094  
CONTACT: DOUG OSBORN, P.E.

SHEET INDEX:

C-31	PUBLIC WATER LINE PLAN
	-COVER SHEET
C-32	PUBLIC WATER LINE PLAN
C-33	PUBLIC WATER LINE PLAN
C-34	PUBLIC WATER LINE PLAN
C-35	PUBLIC WATER LINE PLAN

PUBLIC WATER LINE PLANS

FOR

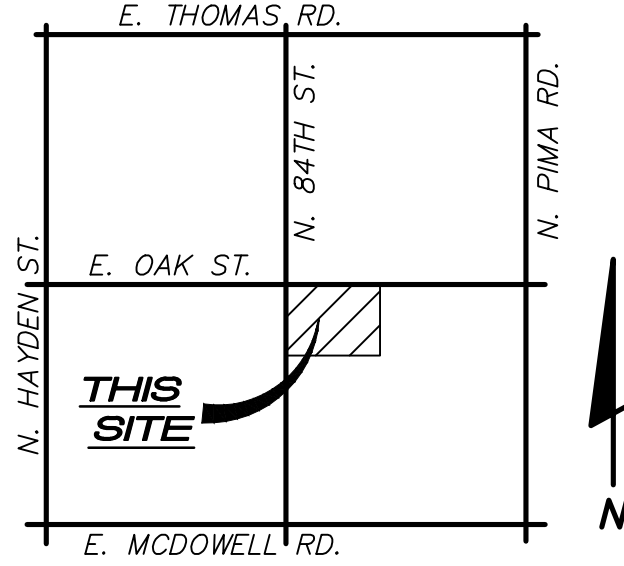
HOHOKAM TRADITIONAL SCHOOL

SITE ADDRESS: 8451 E. OAK ST., SCOTTSDALE, AZ 85257

FOR

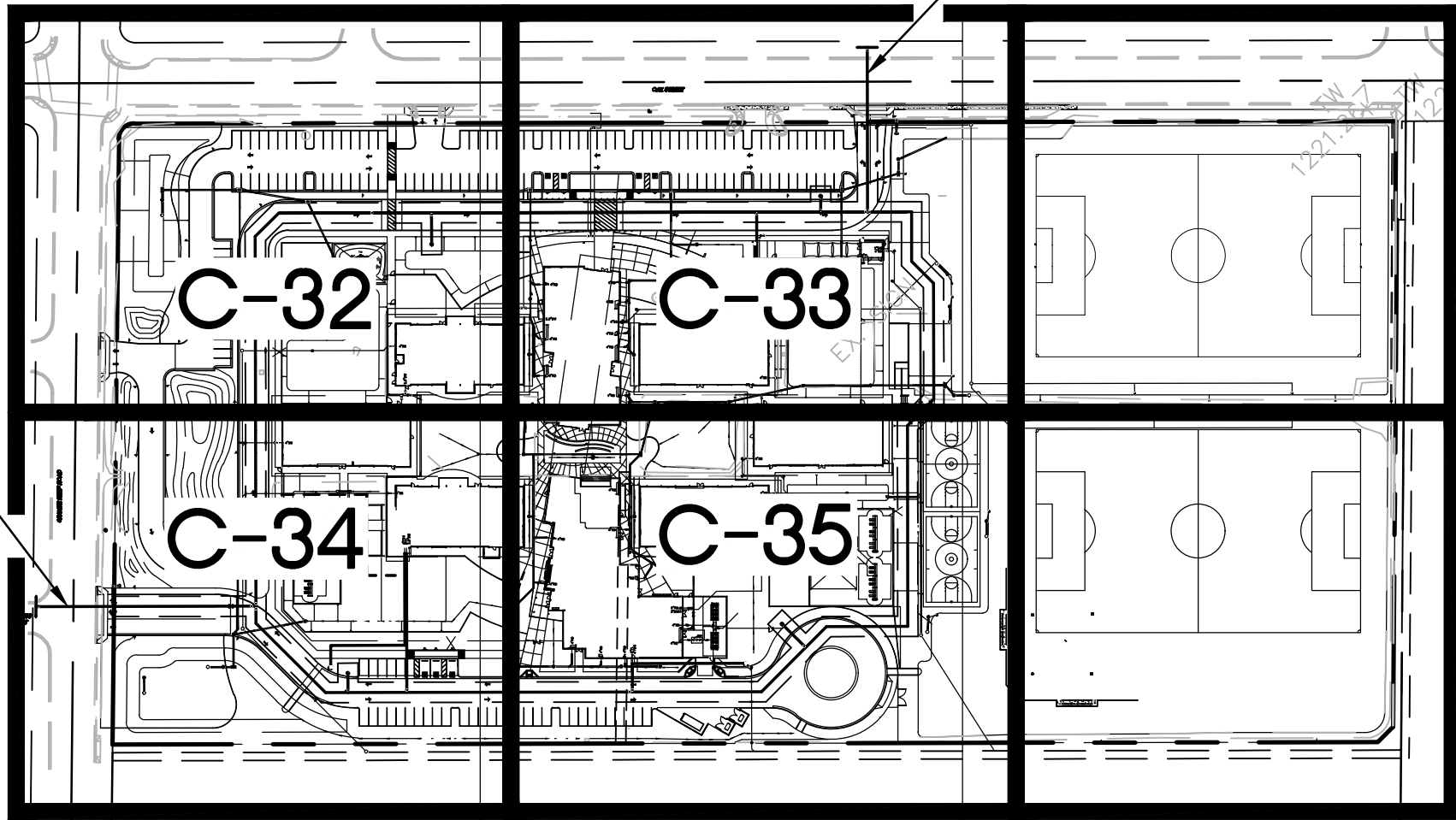
SCOTTSDALE UNIFIED SCHOOL DISTRICT NO. 48

7575 E. MAIN STREET,  
SCOTTSDALE, ARIZONA 85251  
PHONE: (480) 484-6100  
CONTACT: DENNIS ROEHLER



VICINITY MAP

NOT TO SCALE



SHEET INDEX MAP

NOT TO SCALE

NOTE:

IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (A.A.C.) R18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1ST, 1993, WHICH MAY COME INTO CONTACT WITH DRINKING WATER, SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.

DWR-20-00371

WWR-20-00289

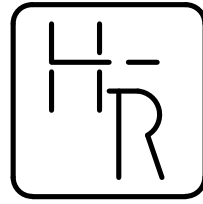
NOTES FOR IMPROVEMENT PLANS WHERE THERE IS EXISTING ACP OR PVC PIPE:

- ANY WATER LINE PROJECT THAT INVOLVES CONNECTING TO AN EXISTING ACP OR PVC PIPE, REQUIRES SPECIAL ATTENTION. PER DSPM SECTION 6-1.408:
  - FITTINGS INSTALLED INTO ASBESTOS CEMENT PIPE (ACP) OR PVC PIPE WITHIN 6- FEET OF ANOTHER FITTING OR JOINT WILL REQUIRE THAT SECTION OF PIPE TO BE REMOVED AND REPLACED WITH DUCTILE IRON PIPE (DIP). EXISTING TEES, TAPPING SLEEVES AND RELATED APPURTENANCES THAT ARE NOT UTILIZED BY THE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR. A MINIMUM 3-FOOT SECTION OF PIPE SHALL BE REMOVED, WITH NO LESS THAN 6- FEET REMAINING TO THE NEAREST JOINT. THE REMOVED PIPE SHALL BE REPLACED WITH DIP.
  - WHEN MORE THAN 3- FEET OF EXISTING ACP OR PVC WATER LINES ARE EXPOSED DURING CONSTRUCTION AND THE BEDDING IS DISTURBED, THE WATER LINE MUST BE REPLACED WITH DIP (MINIMUM CLASS 350) WITH MECHANICAL JOINTS OR FLANGED JOINTS TO 3- FEET PAST THE SIDES OF THE EXPOSED CROSSING TRENCH. REFER TO MAG STANDARD DETAIL NO. 403-3.
- NO TAPPING SLEEVE AND VALVES SHALL BE USED ON ACP PIPE. VALVES WILL NEED TO BE CUT INTO ACP PIPE.
- DISPOSAL OF MATERIALS CONTAINING ASBESTOS AND/OR LEAD SHALL BE IN CONFORMANCE WITH ALL REGULATIONS, LAWS AND ORDINANCES.

BENCHMARK:

CITY OF SCOTTSDALE BENCHMARK #5011. MARICOPA COUNTY BRASS CAP IN HANDHOLE LOCATED AT THE INTERSECTION OF MCDOWELL ROAD AND 84TH. ELEVATION=1218.04 (CITY OF SCOTTSDALE NAVD88 DATUM)

I HEREBY CERTIFY THAT ALL ELEVATIONS REPRESENTED ON THIS PLAN ARE BASED ON THE ELEVATION DATUM FOR THE CITY OF SCOTTSDALE BENCHMARK PROVIDED ABOVE.



HESS - ROUNTREE, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
9831 SOUTH 51ST STREET, SUITE C110  
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR:

- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
- THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING, SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
- ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8- FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
- THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- ALL NEW PRIVATE UNDERGROUND UTILITIES (WATER LINES 3" AND LARGER, SEWER LINES, FIRE LINES AND STORM DRAIN LINES SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION AS SHOWN HEREON WAS MADE UNDER MY SUPERVISION, OR AS NOTED, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED PROFESSIONAL ENGINEER OR  
REGISTERED LAND SURVEYOR

DATE

CIVIL APPROVAL

REVIEW & RECOMMENDED APPROVAL BY:

PAVING		TRAFFIC	
G & D		PLANNING	
W & S		FIRE	
RET. WALLS			
ENGINEERING COORDINATION MANAGER OR DESIGNEE		DATE	

PUBLIC WATER LINE PLAN - COVER SHEET

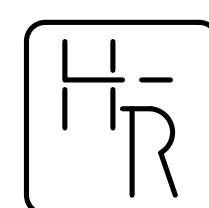
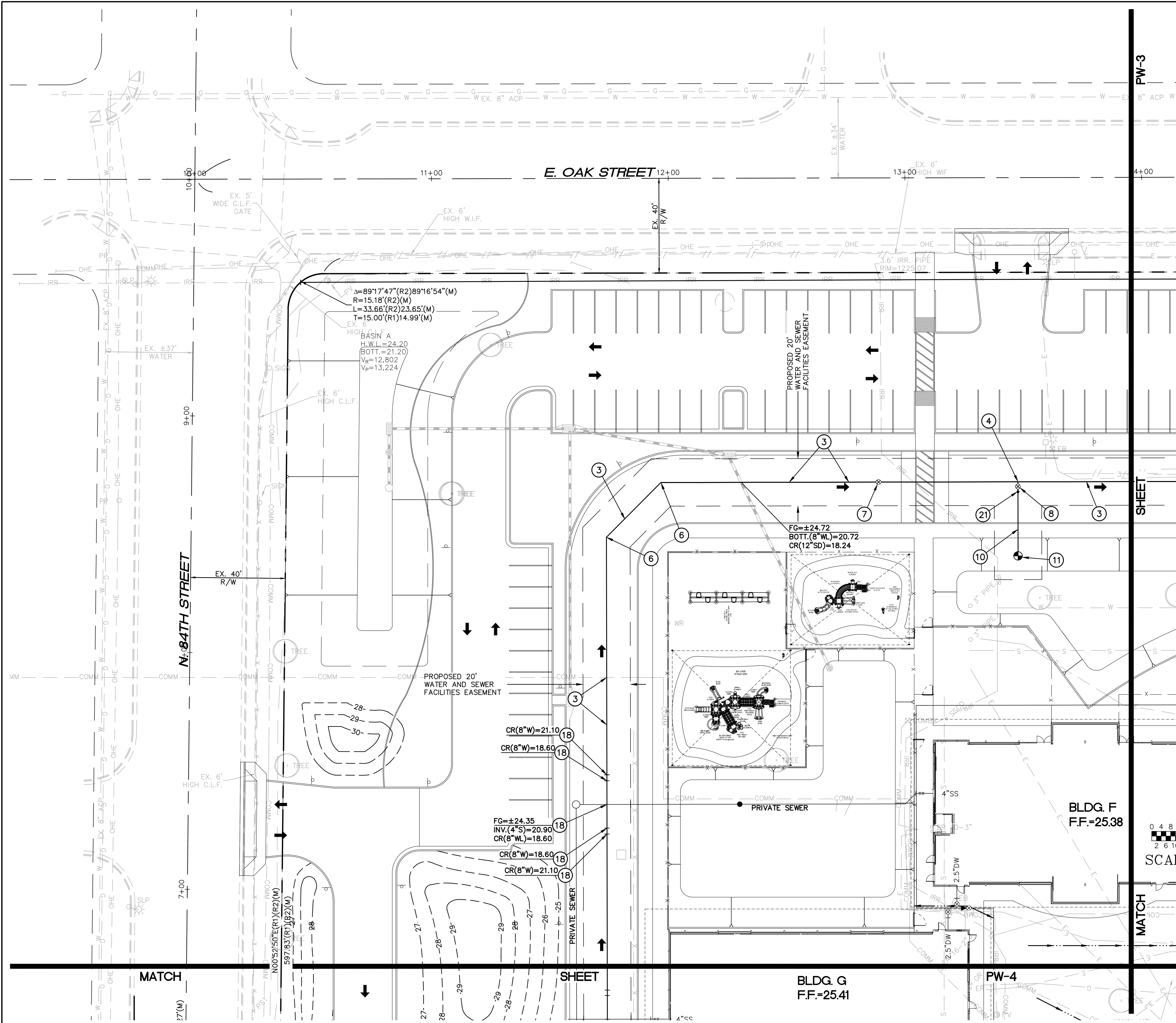
SCOTTSDALE UNIFIED SCHOOL DISTRICT #48

IMPROVEMENT PLANS FOR  
HOHOKAM ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	C-31
CONSTRUCTION SET			
DATE: 6/29/20	31	35	







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DES. **DRO** DRN. **JCW** CKD **DRO** JOB NO. **1704-13**

**PUBLIC WATER LINE CONSTRUCTION NOTES:**

- 1 SEE ONSITE PRIVATE FIRE LINE PLANS FOR CONTINUATION.
- 2 INSTALL 8" TEE AND 8" VALVE, BOX AND COVER (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2362-2). INSTALL TEMPORARY TAP FOR CHLORINE INJECTION (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2399). REMOVE EXISTING 8" A.C.P. WATER LINE 10' EITHER SIDE OF THE TEE AND REPLACE WITH NEW 8" DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350), INCLUDING ALL HIGH RANGE FLEXIBLE COUPLINGS AND CONCRETE THRUST BLOCKS PER MAG STANDARD DETAIL NO. 380.
- 3 INSTALL 8" POLYWRAPPED DUCTILE IRON WATER LINE (AWWA C-150, PRESSURE CLASS 350).
- 4 INSTALL 8" X 6" TEE.
- 5 INSTALL 8"-90° BEND.
- 6 INSTALL 8"-45° BEND.
- 7 INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C"). ADJUST VALVE BOX FRAME AND COVER TO FINISH GRADE (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2270).
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- 12 SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2200 (T-TOP), TRENCHING AND BACKFILL PER CITY OF SCOTTSDALE STANDARD DETAIL NO. 2201, TYPE "A").
- 13 SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO THE NEAREST JOINT (MAG STANDARD DETAIL NO. 220-1, TYPE A).
- 14 POTHOLE AND FIELD VERIFY ELEVATION AND LOCATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
- 15 INSTALL 1-1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2354) FOR LANDSCAPE PURPOSES. INSTALL GUARD SHACK ENCLOSURE OR APPROVED EQUAL ON 4" CONCRETE SLAB.
- 16 INSTALL NEW 1-1/2" WATER SERVICE AND 1-1/2" WATER METER WITH METER BOX AND COVER FOR LANDSCAPE PURPOSES (PER CITY OF SCOTTSDALE S.D. NO. 2330). ACTUAL INSTALLATION OF METER BY CITY OF SCOTTSDALE FORCES AFTER APPLICATION AND PAYMENT OF PREVAILING FEES.
- 17 SEE LANDSCAPE DRAWINGS FOR CONTINUATION.
- 18 VERTICALLY REALIGN WATER LINE (PER MAG STANDARD DETAIL NO. 370 AND C.O.S. DETAIL NO. 2370) TO PROVIDE A MINIMUM OF 2'-FEET OF SEPARATION BETWEEN THE BOTTOM OF THE SEWER LINE, STORM DRAIN OR IRRIGATION LINE AND TOP OF THE WATER LINE. SEWER LINE/IRRIGATION/STORM DRAIN LINE SHALL BE DUCTILE IRON (PRESSURE CLASS 350) FOR 10 FEET ON EITHER SIDE AT THE POINT OF CROSSING WITH SPECIFIED JOINT PLACEMENT AND TYPE PER MAG SPECIFICATION SECTION 610.5.5 AND MAG STANDARD DETAIL NO'S 404-1 AND 404-2. AT SIDE BY SIDE STORM DRAIN AND SEWER CROSSING INSTALL 20'-FOOT SECTION OF DUCTILE IRON PIPE CENTERED BETWEEN STORM DRAIN AND SEWER PIPE CROSSING.
- 19 REMOVE EXISTING TEE AND INSTALL A 90° BEND TO CONNECT TO EXISTING FIRE HYDRANT. REMOVE WATER LINE SOUTH OF THE TEE WITHIN THE PUBLIC RIGHT OF WAY.
- 20 REMOVE EXISTING FIRE LINE EAST OF THE NEW HYDRANT WITHIN THE PUBLIC RIGHT OF WAY. SEE ON-SITE DEMOLITION PLANS FOR CONTINUATION.
- 21 INSTALL PAVEMENT MARKER FOR HYDRANT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2363).

**NOTE:**

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3. CITY OF SCOTTSDALE INSPECTOR TO DETERMINE LIMITS OF SAW-CUT.

**PUBLIC WATER LINE PLAN**

**SCOTTSDALE UNIFIED SCHOOL DISTRICT #48**

**IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL**

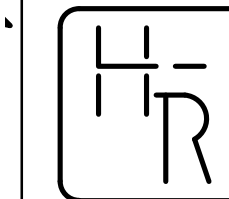
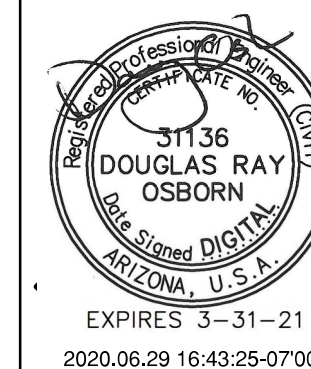
DRAWING STATUS	SHEET	OF	
CONSTRUCTION SET			
	32	35	C-32
DATE:	6/29/20		

**\*\* SEE LEGEND ON SHEET C-31 \*\***

22 INSTALL 8" TO 6" REDUCER.







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DES. **DRO** DRN. **JCW** CKD. **DRO** JOB NO. **1704-13**

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0 4 8 20  
2 6 10 40  
SCALE: 1"=20'

**\*\* SEE LEGEND ON SHEET C-31 \*\***

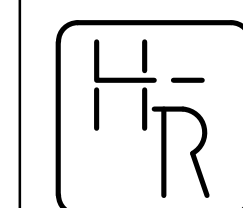
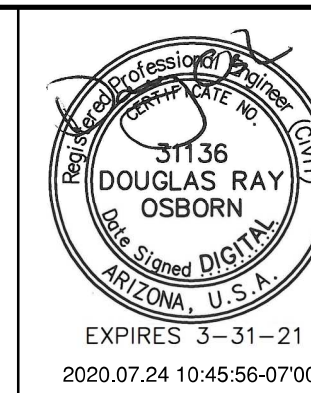
PUBLIC WATER LINE PLAN			
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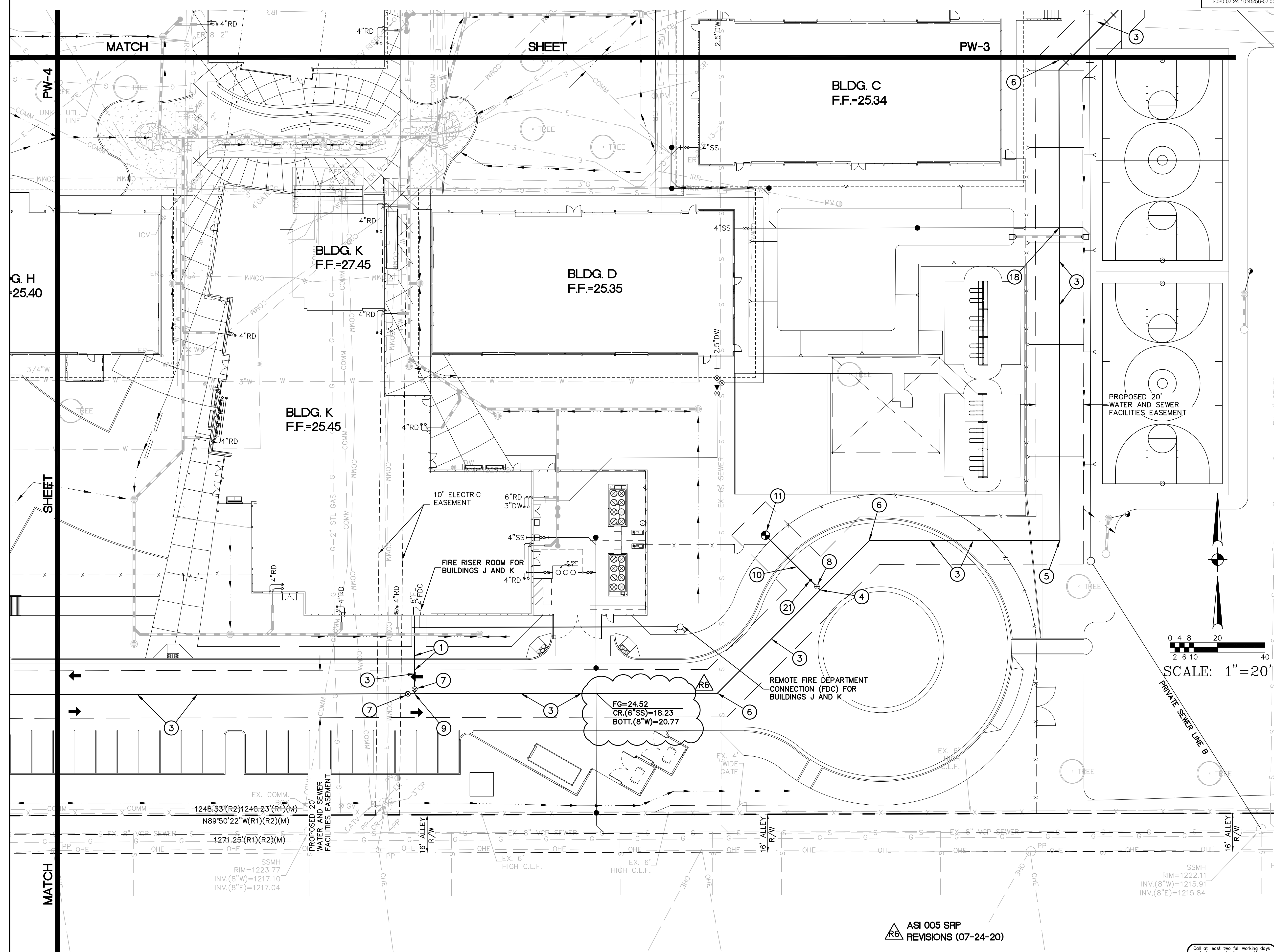






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**NOTE:**

- ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.
- ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8'-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
- CITY OF SCOTTSDALE INSPECTOR TO DETERMINE LIMITS OF SAW-CUT.

PUBLIC WATER LINE PLAN			
SCOTTSDALE UNIFIED SCHOOL DISTRICT #48			
IMPROVEMENT PLANS FOR HOHOKAM ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-35
CONSTRUCTION SET			
DATE:	6/29/20	35	35

ASI 005 SRP  
REVISIONS (07-24-20)

- INSTALL PAVEMENT MARKER FOR HYDRANT (CITY OF SCOTTSDALE STANDARD DETAIL NO. 2363).
- INSTALL 8" TO 6" REDUCER.



\*\* SEE LEGEND ON SHEET C-31 \*\*